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THE UNIVERSITY OF CINCINNATI

CATALOGUE

UNIVERSITY
JUN 10 1911
OF MICHIGAN

1903-1904

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SERIES I, VOL. IV.

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THE
UNIVERSITY OF CINCINNATI

FOUNDED BY CHARLES McMICKEN

CATALOGUE
1903-1904

1904
THE UNIVERSITY PRESS
CINCINNATI, OHIO

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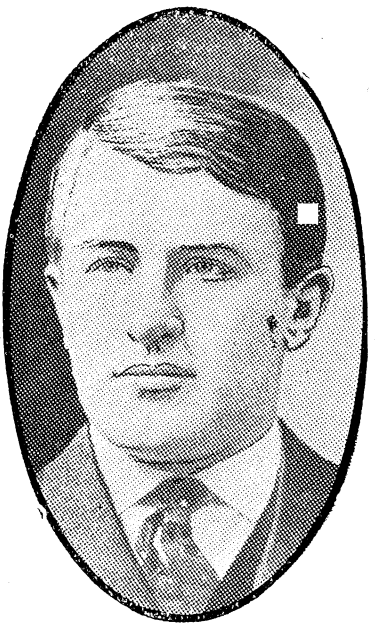
[From the University Weekly News.]

Our New Physical Director.

Mr. Amos P. Foster, of Dartmouth College, has been elected to succeed Mr. Chez. Mr. Foster graduated from Cushing Academy in 1899, where he had played on every athletic team. The next year he was a member of the graduate basket-ball team, which was the All-New England champion for that year, winning in a tournament of thirty-five picked teams. During his college career he was a member of the Dartmouth eleven, playing regularly in the position of fullback, and, when needed, end and halfback. His defensive work was looked upon as indispensable to the success of the best team that ever represented Dartmouth. The physical director of Cushing Academy



speaks of Mr. Foster as a born leader, and adds that he knows of no one whom he would more cheerfully recommend to take charge of athletics. Professor Bolser, of Dartmouth, calls him a first-class athlete, a gentleman, and a scholar of high standing. The Principal of Bradford Academy, who employed Mr. Foster to coach the basket-ball teams for two seasons, declares that besides being one of the fastest basket-ball players of New England, he has the faculty of bringing out the ability of the men whom he trains and of instilling into them the old Dartmouth spirit which wins victory out of seeming defeat. The writer adds: "He has also coached my baseball team one season with success." The Physical Director of Dartmouth College speaks even more enthusiastically of Mr. Foster's fitness for the position: "I do not at present know of another person so well fitted for the place to be filled. . . . His success in that position (fullback) was abundantly shown last season, when many of the Eastern writers gave him a place on the All-American team. The men of his own team give him an even higher rating. His value depended not simply upon physical qualities, but upon knowledge of every feature of the game, and upon originality and initiative in building up team work. . . . In both lines of work (baseball and track athletics) he is not only a good performer, but is also possessed of the knowledge of the art which would enable him to succeed in getting results. In gymnasium work I can speak of Mr. Foster with even greater positiveness, as he has had his drill under my own eyes." President Tucker writes that Mr. Foster has done good work in the classroom throughout his course, and has been counted one of the steady men of the college, and that he is popular among the fellows as much for his personal qualities as for his athletic ability; and he adds in a postscript in his own handwriting: "Mr. Foster not only has himself under fine control, but has also elements of authority and control of others to an unusual degree."

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CALENDAR.

1903.

SEPT. 21, MONDAY.....First day of Registration and examination for admission.

" 23, WEDNESDAY...Last day of registration and examination for admission.

" 23, " ...Last day for filing elections.

" 24, THURSDAY.....First term begins.

NOV. 26, THURSDAY.....Thanksgiving Day, holiday.

DEC. 14, MONDAY.....Term examinations begin.

" 19, SATURDAY..... First quarterly convocation. First term ends.

" 20, SUNDAY.....Christmas recess begins.

1904.

JAN. 4. MONDAY.....Second term begins.

" 5, TUESDAY..... ...Last day for filing elections.

FEB. 22, SUNDAY.....Washington's Birthday, holiday.

MAR. 21, MONDAY.....Term examinations begin.

" 26, SATURDAY.....Second quarterly convocation. Second term ends.

MAR. 28, MONDAY..... Third term begins.

" 29. TUESDAY.....Last day for filing elections.

APRIL 11 to 16, ...Carnival week.

MAY 6, FRIDAY.....Oratorical contest for the Jones prize.

" 30, MONDAY.....Memorial Day, holiday.

JUNE 13, MONDAY.....Term examinations begin.

" 15, WEDNESDAY...First day of registration for the Summer School.

" 18, SATURDAY.....Third quarterly convocation. Third term ends.

" 18, " AFTERN'N..Alumni meeting.

" 20, MONDAY .....First session of Summer School begins.

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JULY 4, SATURDAY.....Holiday.
" 30, SATURDAY.....First session of Summer School ends.
AUG. 1, MONDAY.....Second session of Summer School begins.
SEPT. 10, SATURDAY.....Second session of Summer School ends.
" 29, THURSDAY .....First day of registration and examination for admission.
OCT. 1, SATURDAY.....Last day of registration and examination for admission.
" 3, MONDAY.....First term begins.
" 4, TUESDAY.....Last day for filing elections.
NOV. 24, THURSDAY.....Thanksgiving Day, holiday.
DEC. 19, MONDAY.....Term examinations begin.
" 24, SATURDAY.....First quarterly convocation. First term ends.
" 25, SUNDAY.....Christmas recess begins.

1905.

JAN. 2, MONDAY.....Second term begins.
" 3, TUESDAY..... ...Last day for filing elections.
FEB. 22, WEDNESDAY...Washington's Birthday, holiday.
MAR. 20, MONDAY.....Term examinations begin.
" 25, SATURDAY.....Second quarterly convocation. Second term ends.
" 26 to APRIL 1 .....Carnival week.
APRIL 3, MONADY.....Third term begins.
MAY 5, FRIDAY.....Oratorical contest for the Jones prize.
" 30, TUESDAY.. .....Memorial Day, holiday.
JUNE 19, MONDAY.....Term examinations begin.
" 24, SATURDAY.....Third quarterly convocatIon. Third term ends.
JULY 25, SATURDAY.....3 P. M., Alumnal meeting.

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ADMINISTRATIVE OFFICERS.

President. HOWARD AYERS, Ph. D., LL. D.,
Office, No. 5, McMicken Hall.

Clerk and Collector: DANIEL LAURENCE, B. S.,
City Hall.

Assistant Clerk: CHRISTIE WILKIE, City Hall.

Registrar: LELIA A. GARVIN, B. L.,
Office, No. 7, McMicken Hall.

Librarian: MRS. HARRIET EVANS HODGE,
Van Wormer Library.

Director of the Gymnasium: A. W. CHEZ,
Office, No. 2 McMicken Hall.

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CORPORATION.

THE BOARD OF DIRECTORS.

APPOINTED BY THE MAYOR OF CINCINNATI.

FRANK J. JONES, *Chairman*	May 11,	1905
JOHN G. O'CONNELL	"	1905
SAMUEL W. TROST	"	1905
ELLIS GUY KINKEAD	"	1907
OSCAR W. KUHN	"	1907
JOSEPH RANSOHOFF, M. D	"	1907
ALFRED B. BENEDICT	"	1909
F. SANFORD BROWN	"	1909
HENRY MELVILLE CURTIS, D. D	"	1909

DANIEL LAURENCE, *Clerk.*

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COMMITTEES OF THE BOARD.

The President of the University is *ex-officio* a Member of all Committees.

Committee on Funds and Claims:
Messrs. KUHN, TROST, BROWN.

Committee on Law:
Messrs. BENEDICT, KUHN, KINKEAD.

Committee on Buildings:
Messrs. TROST, BROWN, JONES.

Committee on Academic Department:
Messrs. CURTIS, BENEDICT, JONES.

Committee on the Observatory:
Messrs. RANSOHOFF, O'CONNELL, KINKEAD.

Committee on the University:
Messrs. BROWN, KUHN, CURTIS.

Committee on Plans and Construction:
Messrs. KINKEAD, RANSOHOFF, TROST.

Committee on Library:
Messrs. CURTIS, RANSOHOFF, O'CONNELL.

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The Classics:

ELLIS G. KINKEAD, JOSEPH WILBY,
GEO. K. BARTHOLOMEW, T. WARRINGTON GOSLING.

English Literature:

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EMMA L. PARRY (Miss). DAVID PHILIPSON,
NATHANIEL W. STEPHENSON.

English Composition:

JOSEPH E. WHITE, ALICE K. HOLLISTER
W. A. DECAMP, (Mrs. Howard C. Hollister),
FLORENCE MANN (Miss).

German:

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HENRY LOEWE, B. G. HARFF,
ANNA LANGENBECK (Miss).

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FRANK R. ARNOLD, (Mme. Auguste Fredin),
BETTY F. HOLMES (Mrs. C. R. Holmes).

Philosophy:

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HARLAN CLEVELAND.

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JESSE LOWMAN, CASPER ROWE,
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MARY E. THALHEIMER (Miss).

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GEORGE B. NICHOLSON, ANDREW HICKENLOOPER,
G. BOUSCAREN.

Physics:

JAMES A. STANWOOD, ROBERT ANDERSON,
REUBEN A. HOLDEN, J. WARREN RITCHEY,
JAMES W. BULLOCK, WILLIAM H. DOANE.

Chemistry:

CHARLES G. MERRILL, ALFRED SPRINGER,
FREDERICK L. HOFFMAN.

Biology:

JOSHUA LINDAHL, F. W. LANGDON,
FANNIE M. HOLLINGSHEAD, (Miss), CHARLES DURY.

Library:

NATHANIEL D. C. HODGES, DAVIS L. JAMES,
JOHN F. WINSLOW, ALEXANDER HILL,
EDWIN GHOLSON.

Buildings and Grounds:

The Municipal Art Society.

WILLIAM WORTHINGTON, CHAIRMAN.

A. H. CHATFIELD, JANE C. NEAVE,
R. H. WARDER, C. J. BARNHORN.

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HISTORICAL STATEMENT.

I. FOUNDATION AND DEVELOPMENT.

The University of Cincinnati was established under an act of the General Assembly of Ohio, entitled "An Act to enable cities of the first class to aid and promote education," which became a law on April 16, 1870. On March 14, 1871, the Common Council of Cincinnati passed an ordinance "to provide for the University of Cincinnati," the first section of which reads as follows:

"Sec. 1. *Be it enacted, etc.*, That the board of directors established by the ordinance passed December 12, A. D. 1859, entitled 'An ordinance to provide for the devise of Charles McMicken to the city of Cincinnati,' are hereby authorized and directed to transfer and deliver over all the estate, property, funds and claims held or controlled by them, and all books and papers relating to the same, to the board of directors established by said act, passed April 16, 1870, and elected by said Common Council, December, 1870, and the custody, management and entire administration and control thereof shall henceforth be intrusted to said last-mentioned board, subject to the provisions of the last will of the said Charles McMicken and of the act aforesaid."

The will of Charles McMicken, mentioned in this ordinance, was admitted to record by the Probate Court of Hamilton County on April 10, 1858. It contained the following passage at the beginning of the thirty-first section:

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"Having long cherished the desire to found an institution where white boys and girls might be taught not only a knowledge of their duties to their Creator and their fellowmen, but also receive the benefit of a sound, thorough and practical English education, and such as might fit them for the active duties of life, as well as instruction in the higher branches of knowledge, except denominational theology, to the extent that the same are now or may hereafter be taught in any of the secular colleges or universities of the highest grade in the country, I feel grateful to God that through his kind providence I have been sufficiently favored to gratify the wish of my heart.

"I therefore give, devise and bequeath to The City of Cincinnati, and to its successors, for the purpose of building, establishing and maintaining, as soon as practical after my decease, two colleges for the education of white boys and girls, all the following real and personal estate, in trust forever, to wit:"

By the subsequent provisions of the will those portions of the real estate "above devised," situated in the State of Louisiana, near the town of Baton Rouge, and in the city of New Orleans, "shall be sold" * * * "as soon as it may be deemed prudent," upon certain specified terms; but none of the real estate in the city of Cincinnati "shall at any time be sold." After this real estate passed under the control of the board of directors, established by the ordinance of December 12, 1859, all that portion of it situated in Louisiana, and valued at nearly $500,000, was entirely lost in 1860 by a decision of the Supreme Court of that State annulling that part of the devise at the instance of one or more of the heirs at law of Charles McMicken. The court refused to recognize the validity of bequests of real estate to institutions controlled by non-resident trustees upon perpetual trusts. By this loss the value of the whole be-

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quest was reduced nearly one-half. The remainder of the property, situated in Cincinnati, and in Delhi Township, Hamilton County, being out of repair and in part unimproved, failed to yield a sufficient income to warrant the establishment of the proposed "colleges." For more than ten years, therefore, the revenue derived from the estate was applied to the improvement of the property.

"It became evident that the income arising from the estate of Charles McMicken could not, of itself, produce a revenue sufficient to maintain a university, such as was contemplated by his will. In 1869 the matter was brought to the attention of the City Council, and a committee was appointed to report as to the practicability of the union of the various educational trusts in Cincinnati — notably, the Cincinnati College, the Woodward High School, the Mechanics' Institute and the McMicken University. It was thought that if all these trust funds could be united, there would be furnished a capital of certainly not less than one million dollars, and that with a full co-operation of all the established collegiate institutions—law, medicine and art—there could be organized a university in its broadest and best sense, under the titular term of The University of Cincinnati. This project, of course, contemplated the erection of suitable educational buildings, and the furnishing of proper apparatus on the part of the city. The university project met the approval of the Council, and the aid of the General Assembly was invoked for the cause of higher education." *

* From the oration of Judge Samuel F. Hunt at the laying of the corner-stone of McMicken Hall, on September 22, 1894.

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The result of this movement was the passage of the act of April 16, 1870, under which, almost a year later, The University of Cincinnati was established. Although the promoters of the undertaking were unable to bring about a union of the several trust funds mentioned above, after a delay of two years the Board of Directors determined to make a beginning.

Instruction was first given in September, 1873, by the teachers of Woodward High School. In 1874 the Academic Department of the University was organized by the appointment of three professors and two instructors.

The first of the scientific and educational institutions of the city to surrender its property to the city for the benefit of the University was the Cincinnati Astronomical Society, founded in 1842. The following statement, showing the nature of the agreement between the Society and the city, is contained in the first annual report of the directors of the University, dated March 1, 1872:

"The property on Mount Adams, which was donated by the late Nicholas Longworth, Esq., for an observatory, having become unsuitable for that purpose, his heirs have joined with the Astronomical Society in an agreement to give and convey the ground to the city, upon the specific trust that it shall be leased or sold, and the proceeds applied toward endowing the School of Drawing and Design, which is now established in connection with the University; the city agreeing, as a condition of the gift, to sustain an observatory, also to be connected with the University. To enable the city to comply with the latter engagement, Mr. John Kilgour has agreed to give four acres of land as the site for a new observatory, and also the sum of ten thousand dollars for building and equipping it. The Astronomical Society also gives to the city, for the same object, the

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equatorial and other instruments, with all the apparatus and astronomical records and books belonging to the present observatory."

After a time several of the professional schools and colleges of the city became affiliated in name with the University, but it was long before any of them entered into closer relations.

At the meeting of the Board of Directors in June, 1895, a resolution was adopted, directing the Committee on University to report the organization of a Medical Department. As a result of the efforts of this committee, on April 27, 1896, The Medical College of Ohio (founded in 1819) was conveyed to the city of Cincinnati, in accordance with the terms of an agreement entered into between the College and the Board of Directors of the University, and under an act passed on the same day by the General Assembly of Ohio. The language of the act is as follows:

"*Whereas*, The trustees and faculty of the Medical College of Ohio and the directors of the University of Cincinnati have unanimously agreed that the interests of both institutions will thereby be promoted:

"Sec. 1. *Be it enacted by the General Assembly of the State of Ohio*, That the affairs of the Medical College of Ohio shall hereafter be under the management of the directors, for the time being, of The University of Cincinnati, which directors shall be, and they are hereby, constituted the board of trustees of the Medical College of Ohio, and they are hereby authorized to exercise all the powers granted by law to the board of trustees of the Medical College of Ohio.

"Sec. 2. This act shall take effect and be in force from and after May 1, 1896."

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Under the second article of the agreement the new school shall be designated by the joint titles, "The Medical Department of the University of Cincinnati" and "The Medical College of Ohio."

At about the same time a movement was on foot for the establishment of a Law Department. On May 18, 1896, a committee reported to the Board of Directors that it had "succeeded in enlisting the services of six of the ablest and most eminent lawyers of our bar in organizing a Law Department in the University, who have consented to serve as your faculty upon the terms specified in the subjoined by-laws, provided you will adopt them as the code for the government of that department."

On June 15, 1896, a Law Department was established by a resolution of the Board of Directors adopting the by-laws and appointing the six professors named in the report of the committee.

Instruction was begun in October, 1896, in rooms on Fourth Street, rented for the purpose.

In May, 1897, steps were taken by the Board of Trustees of the Cincinnati College to bring about a union of the Law Department of the University and the Law School of the Cincinnati College (founded in 1833). A contract was drawn up by a joint committee, representing the Board of Directors of the University of Cincinnati and the Board of Trustees of the Cincinnati College. By this contract it was provided that the faculty of the Law Department, together with certain members of the faculty of the Law School of the Cincinnati College, should be the faculty of the new school; and that the degree of Bachelor of Laws should, by the concurrent action of the Board of Directors of the

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University of Cincinnati and the Trustees of the Cincinnati College, be conferred upon those passing satisfactory examinations in the new school.

At a meeting held on June 3, 1897, the Board of Directors of the University of Cincinnati adopted the following resolution:

"*Resolved*, That the proposal of the Cincinnati College and the plan for uniting the Cincinnati Law School with the Law Department of the University of Cincinnati, adopted by the Trustees of the Cincinnati College, May 25, 1897, be and the same are now accepted and adopted by this board on behalf of the city of Cincinnati. And the chairman and clerk of this board are authorized to execute an agreement on behalf of this board and the city of Cincinnati with the said the Cincinnati College, upon the terms expressed in said proposed plan."

The agreement was finally executed on June 14, 1897.

By the first article of the contract between the Cincinnati College and the University of Cincinnati, the Law Department of the University is to be known as The Cincinnati Law School. Other articles provide for the use of the library and building of the Cincinnati College by the new Law School, and for the appointment of two additional professors "to the present faculty of the Law Department of the University."

For a statement concerning the Technical School, see page 212.

Less closely united with the University are two other schools. The Clinical and Pathological School of the Cincinnati Hospital became affiliated with the University in 1887, being designated as the Department of Clinical Medi-

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cine of the University of Cincinnati, but retaining its independence, and being governed by its own board of trustees. An account of its organization and equipment may be found on pages 267–268.

In 1888 the Ohio College of Dental Surgery (established in 1845) also became united with the University by the loose bond of affiliation. For a statement concerning the Dental Department, see pages 273–275.

II. THE APPOINTMENT AND POWERS OF THE BOARD OF DIRECTORS.

The original draft of the act of April 16, 1870, provided for thirteen directors, and vested in the Common Council the power of appointment without limitation. Before the passage of the bill an amendment was agreed to, increasing the number of directors to nineteen, and providing that six of the whole number should be appointed from such names as should be nominated to the Common Council by the Board of Education.*

At first the directors were elected by the Council. The ordinance of March 14, 1871, establishing the University, contains the following section:

"Sec. 2. The annual appointment of directors required by section third of the act aforesaid, or any amendment thereof, shall be made by an election, to be held on the first Monday of November in each and every year; and a meeting of the Common Council for that purpose shall be called by its officers annually, and had on that day."

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* From the oration of Judge Hunt. See above.

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By a later act (April 13, 1889) the powers of the Common Council were still further restricted. The section of the Revised Statutes is as follows:

"Sec. 4098. Board of Directors, How Appointed. The custody and management of any and all estates, property, or funds so given or transferred in trust to said city, and the entire administration of any and all such trusts so accepted by the Common Council thereof, and any university, college, or institution for the promotion of education heretofore or hereafter so founded in or by said city, except the common and high schools thereof, shall be committed to a board of nineteen directors, of whom the mayor of the city shall be one, and the others shall be appointed by the Common Council from persons of approved learning, discretion and fitness for the office, six of whom shall be appointed from persons nominated to the Common Council by the Board of Education of the city, and twelve from persons nominated to the Common Council by the Superior Court of said city, if there be such court. The term of office of each director shall be six years. Such directors shall serve until the election or qualification of their successors, and any vacancy in the board caused by expiration of term, resignation, removal, or any other cause, shall be filled by appointment, herein provided for the unexpired term. The Board of Directors shall, at the first regular meeting in January, elect a chairman, who is hereby authorized to administer the oath of office to any director so appointed."

It was expressly stated that the act should not be construed to affect the term of any director already appointed.

Again, on February 18, 1892, an act was passed by the General Assembly, vesting the appointment of directors in the judges of the Superior Court. The language of the act is as follows:

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Revised Statutes, Sec. 4098–1 (Vol. 89, p. 31)

1. Directors or Trustees of Universities Supported by Taxation (Cincinnati). *Be it enacted by the General Assembly of the State of Ohio,* That in cities of the first grade of the first class all vacancies in the board of directors or trustees of universities, supported in whole or in part by public taxation upon the property of such city, shall be filled by appointment by the judge or judges of the Superior Court of such cities where the same have [such] a court; otherwise, by the judge or judges of the Common Pleas Court of the county in which such cities are located.

2. That all acts and parts of acts inconsistent with this act are hereby declared void as to such inconsistency, but not otherwise.

3. This act shall take effect and be in force from and after its passage."

Owing to decisions of the Supreme Court of Ohio, declaring unconstitutional the classification of municipalities which then existed (June 1902), it became necessary for the Legislature to pass such laws as might give a uniform government to all the cities and villages of the state.

For this purpose a new Municipal Code was passed on Oct. 22, 1902, and among its provisions was the following, affecting the University:

"Sec. 217 (Administration, management, etc., of municipal university and property thereof to be under board of directors appointed by the mayor). In any municipal corporation having a university supported in whole or in part by municipal taxation, all the authority, powers and control vested in or belonging to said corporation with respect to the management of the estate, property and funds given, transferred, covenanted or pledged to said corporation in trust or otherwise for

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such university, as well as the government, conduct and control of such university shall be vested in and exercised by a board of directors consisting of nine electors of said municipal corporation, who shall be appointed by the mayor of such municipal corporation, three for a term of two years, three for a term of four years, and three for a term of six years each, and shall fill all vacancies in said board. Such board of directors shall be known as "The Board of Directors ——— University" (filling out blank with the name of the university).

(Power and duties of such board). They shall serve without compensation and shall have all the powers and perform all the duties now and hereafter conferred or required by law in the government of said university, and tho execution of any trust with respect thereto imposed upon the municipal corporation; and all acts or parts of acts not inconsistent herewith which govern such universities shall be and remain in full force and effect, and sections 4095, 4096, 4097, 4099, 4100, 4101, 4102, 4103 and 4104 of the Revised Statutes of Ohio, as amended May 12th, 1902, shall remain in full force and effect."

The powers of the Board of Directors are further defined by sections 4095-6 of the Revised Statutes, authorizing the board to accept educational trusts, and more particularly by sections 4099-4102.

"Sec. 4099. Powers of Board. As to all matters not herein or otherwise provided for by law the directors shall have all the authority, powers and control vested in or belonging to said city as to the management and control of the estate, property and funds given, transferred, covenanted, or pledged to the city for the trust and purposes aforesaid, and the government, conduct and control of the university, college, or institution so founded. They may appoint a clerk and all agents proper and necessary for the care and administration of the trust property, and the collection of the income, rents and profits thereof; may appoint the president, professors, tutors, instructors, agents

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and servants necessary and proper for such university, college or institution, and determine their compensation; may provide all the necessary buildings, books, apparatus, and means and appliances, and pass all such by-laws, rules and regulations concerning the president, professors, tutors, instructors, agents and servants, and the admission, government and the tuition of students, as they deem wise and proper; but they may, by suitable by-laws, delegate and commit the admission, government, management and control of the students, course of studies, discipline and other internal affairs of such university, college or institution to the faculty which the directors may appoint from the professors." (Vol. 67, p. 86, par. 3.)

"Sec. 4100. Free or Paid Admission. The citizens of said city whose children, wards or apprentices are admitted to such institution shall not be charged for such admission into the academic department; and no charge shall be made for the instruction of such pupils in the academic department. The board of directors of such university may charge fees to students in other departments, and shall have power in its discretion, from time to time, to make the university free in any or all of its departments to citizens of Hamilton County, Ohio." (April 27, 1896; Vol. 92, p. 359.)

Sec. 4101 treats of the endowment fund, and how it may be invested.

"Sec. 4102. When Board May Confer Degrees. The directors of such university, college or institution may, upon the recommendation of the faculty thereof, confer such degrees and honors as are customary in universities or colleges in the United States, and such others as, with reference to the course of studies and attainments of the graduates in special departments, they may deem proper." (Vol. 67, p. 86, par. 4.)

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III. SUPPORT BY TAXATION.

The University is supported in part by public taxation. The provisions concerning the tax levy for this purpose are contained in section 4104 of the Revised Statutes as amended May 12, 1902. (Vol. 95, p. 548.)

Sec. 4104. (Cincinnati University; when and how tax to be levied.) In cities of the first grade of the first class where there are universities supported in whole or in part by public taxation upon the property of such city, the board of legislation of the city may assess and levy, annually, a tax on the taxable property of the city not exceeding three-tenths of one mill on the dollar valuation thereof, to be applied by the board of directors to the support of such university, college, or institution; and may also assess and levy annually, not exceeding five hundredths of one mill on the dollar of such valuation, for the establishment and maintenance of an astronomical observatory in connection with such university, college, or institution, the proceeds of which shall be applied by the board of directors for said purpose exclusively. Said levies shall be made in compliance with the provisions and requirements and in accordance with the mode of procedure prescribed by sections 2690f, 2690g and 2690i of the Revised Statutes of Ohio, and the city auditor, the board of legislation, and the board of tax commissioners of any such city shall do and perform any and all of the duties prescribed in said sections in as full a manner as respectively required of them in making the tax levy for such city. The funds of such university shall be paid out by the city treasurer upon the orders of the board of directors and the warrant of the city auditor.

IV. BUILDINGS AND SITE.

The will of Charles McMicken directed that the college buildings should be erected out of the rents and income of

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his estate, and on the premises on which he resided in the city of Cincinnati at the time of his death. More precise directions were added:

"The said buildings shall be erected on different parts of the said grounds, to-wit: that for the boys on the north and that for the girls on the south of the road lately cut through the said grounds.

"And I direct that the plot of ground on which the college for the boys shall be built shall comprise not less than from five to six acres, and that on which the college for the girls shall be built shall comprise all below the said road, which plot may, I suppose, contain about three acres."

But the income of the estate proving insufficient to enable the directors to erect buildings and establish colleges, these provisions were not carried out. When at length the University of Cincinnati was established, as the result of an effort to unite the several educational trusts of the city, an issue of bonds, to the amount of $150,000, was authorized by the General Assembly (April 27, 1872), "to provide for the buildings and apparatus necessary for such university."

Under this act bonds were issued, and a building erected for both boys and girls "on the south of the road lately cut through the grounds" of the McMicken homestead. This building was ready for occupancy in September, 1875.

In the meantime university classes met, during 1873-74, in Woodward High School in the afternoon; during 1874-75, in the Third Intermediate School on Franklin Street.

For twenty years the building on McMicken Avenue was occupied by the Academic Department of the University. Long before the end of that time it became evi-

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dent that the site was not adapted to the purpose. A narrow strip of land on a steep hillside offered no room for expansion, and the surroundings were not suitable. Application was therefore made to the Common Council, which passed an ordinance on September 20, 1889, directing the Mayor to execute an agreement with the University of Cincinnati, by the terms of which buildings for university purposes might be erected and maintained on a tract of about forty-three acres of land at the southern end of Burnet Woods Park. This agreement was executed on October 22, 1889, and by its provisions the construction of the main building was to be commenced within three years.

The new site, made possible under the agreement, was eminently suited to the purpose. It was geographically well situated with reference to the city and the surrounding suburbs. The ground was high, with an unimpeded outlook on the west toward the hills above the Millcreek Valley. Northward stretched away the remaining one hundred and twenty acres of Burnet Woods Park, a fine, undulating tract of woodland, provided with good roads and footpaths.

But there were legal obstacles, imposed by the will of Charles McMicken, which stood in the way of removal. A "certain proceeding"* was therefore "instituted, under Section 6202 of the Revised Statutes of Ohio, to obtain the opinion and direction of the court as to whether the University could be removed to the site in Burnet Woods Park, donated by the city of Cincinnati." After a full hearing of the case, "the Circuit Court for the First Judicial Circuit of Ohio decreed that the city of Cincinnati and the

* From the oration of Judge Hunt. See above.

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directors of the University of Cincinnati were permitted, by the terms of the will of Charles McMicken, to expend such funds, arising from the estate devised to the city in trust, as might be necessary to erect buildings for the colleges in Burnet Woods Park, or upon other suitable grounds acquired, or which might be acquired for that purpose; that if such building or buildings be erected, the directors might maintain the colleges provided for by the will with the funds derived from the estate of Charles McMicken wholly in buildings erected in Burnet Woods Park, or they might, with such funds, maintain any part or departments of the colleges, or either of them, in the buildings so situated."

In March, 1893, the Supreme Court of Ohio affirmed the decree of the Circuit Court, and the matter was finally settled.

By an act of the General Assembly, passed on April 20, 1893, an issue of bonds was authorized, not exceeding $100,000, to provide for the building and apparatus necessary for the University.

In the preceding year (April 12, 1892) authority had been obtained from the same source for the appropriation of public grounds for university purposes, and for an extension of time. The language of the statute is as follows:

"Sec. 4103. Site for Buildings and Grounds. The Common Council of said city may set apart or appropriate as a site for the buildings and grounds of the university, college or institution so founded, any public grounds of the city not especially appropriated or dedicated by ordinance to any other use or purpose, any law to the contrary notwithstanding; and the Board of Education of said city may also, for a like purpose, set apart, convey, or lease for a

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term of years any grounds owned by such board. And any grant of the use of such grounds heretofore or hereafter made by any city council or board of education may be modified, changed or extended as to the time when the same shall take effect and be in force, or otherwise, by agreement between such council or board and the directors of such university; and said council or board, or any board of legislation, shall be taken and held to be the representative of such city, vested with the title, right of possession and entire control of such property for the purposes of a new grant." (Vol. 89, p. 251.)

Everything being now arranged, the work proceeded. On September 22, 1894, the corner-stone of McMicken Hall was laid in Burnet Woods Park, and in September, 1895, the building was ready for use, and was occupied by the Academic Department.

In the same year Henry Hanna gave the University the sum of $45,000 to build the north wing, known as Hanna Hall. This sum proving insufficient, Mr. Hanna added the further sum of $4,091.07, to complete the building, and in 1896 he provided the sum of $20,000 to fit and furnish Hanna Hall for the departments of Chemistry and Civil Engineering.

In 1898-99 Briggs S. Cunningham erected the south wing of the University building, at a cost of $60,000. This wing, called Cunningham Hall, is occupied by the departments of Physics and Biology.

In the year 1898 Asa Van Wormer gave 1,000 shares of stock in the Cincinnati Street Railway Company, of the par value of $50,000, the proceeds of which were to be expended in the erection of a library building. This building stands south of Cunningham Hall, and is known as the Van Wormer Library.

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In the summer of 1901, the sum of $22,500 was given to the University by an anonymous benefactor, through Mr. M. E. Ingalls, to be expended in the construction of a building adapted to shop-work, as a part of the equipment of the College of Engineering.

These are the buildings that have thus far been provided in Burnet Woods Park.

Since 1873 the Observatory has stood on Mt. Lookout, about six miles from the center of the city. In 1872 John Kilgour gave to the city, for the use of the University, four acres of ground on Mt. Lookout, valued at $10,000, and the sum of $1,000, on condition that the Observatory building be erected on the ground. Afterwards Mr. Kilgour gave $10,000 in addition for a building. The original corner-stone was removed from the old building on Mt. Adams and laid in the new building in 1873.* The Observatory was then equipped by the gift of the Cincinnati Astronomical Society with the books and instruments in its possession, valued at $8,000.

Since October, 1896, the University building on the McMicken homestead has been occupied by the Medical Department (The Medical College of Ohio). A Dispensary building, erected in 1896, is situated on the lower part of the same grounds.

The Law Department (The Cincinnati Law School) occupies a building on Ninth Street, between Race and Vine

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* Historical sketch of the Cincinnati Observatory, by Prof. J. G. Porter, p. 12.

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Streets. This building was completed in 1902, at a cost of $65,000. It is planned especially for Law School purposes.

The Ohio College of Dental Surgery, early in its history, erected its own building on College Street, which it occupied until 1895, when it removed to its present building at Central Avenue and Court Street.

The Clinical and Pathological School of the Cincinnati Hospital occupies rooms at the Hospital building, on Twelfth Street and Central Avenue.

V. BENEFACTORS OF THE UNIVERSITY.

Besides Charles McMicken, Henry Hanna, Briggs S. Cunningham, Asa Van Wormer, John Kilgour and the Astronomical Association, whose names and gifts have already been mentioned, the persons named below have contributed to the endowment or to the equipment of the University:

In 1873 Julius Dexter gave $1,000 as an endowment for the Observatory, the interest to be used for its support.

In 1869 the trustees of the real estate devised by Charles McMicken to the city of Cincinnati established a School of Design, which, two years later, became a department of the University of Cincinnati, when that institution was founded.

During his life Joseph Longworth, at different times, gave to the city for the support of the School of Design the sum of $100,000. In the year 1883 he desired that the School of Design should be surrendered to the management of the Museum Association, and proposed, if this were done, to endow it with perpetual ground rents, of the

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market value of $250,000. After mature deliberation the University directors accepted his proposition, and in February, 1884, the School of Design passed under the management of the Cincinnati Museum Association.

In 1875 Prof. S. Lilienthal, of New York City, in memory of his son, a talented mining engineer, gave a valuable collection of minerals, with the inscription, "Donated by Benjamin Lilienthal."

In 1881 Mrs. Nannie Fechheimer, of this city, gave a valuable geological and mineralogical collection, in memory of her husband, Marcus Fechheimer.

The late Rev. Samuel J. Browne, in his last will, bequeathed $150,000 to establish a university. But his will was set aside, and his heirs, by an agreement, gave $1,000 to the Cincinnati Orphan Asylum, $1,000 to the Widows' Home, and a certain amount of property for educational purposes, of which the Lane Theological Seminary received one-third and the University two-thirds for its support, to be known, according to agreement, as the "Browne Endowment Fund." At present the board holds, invested in bonds, the sum of $17,650, and uninvested the sum of $2,516.01. The entire proceeds that may be received from the sale of lots are to be kept intact, the interest only to be expended for the support of the University.

Matthew Thoms, who died in 1890, bequeathed to the University of Cincinnati property, the estimated value of which is $130,000. His heirs having proceeded to test the validity of the will, a compromise was agreed upon, by which the heirs received $20,000 in money.

In 1891 A. G. Wetherby, formerly Professor of Natural History in the University, gave a collection of specimens, valued at more than $2,000, in natural history and mineralogy.

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In 1892 Frank J. Jones founded a prize, consisting of $40, to be awarded annually to that member of the Senior class of the Academic Department who shall write and pronounce an English oration in the best manner. In 1901 he founded a second prize of $20, to be awarded to that member of the Senior class whose oration is adjudged to be next to the best. Both of these prizes are established upon a permanent endowment.

In 1894 the late Laura Seasongood, in her last will, bequeathed to the University of Cincinnati $800. This legacy, less $30 collateral inheritance tax, has been paid to the University of Cincinnati by the executors of the estate of Laura Seasongood, Messrs. A. J. Seasongood and Sigmar Stark, the interest of which is used for library purposes—*i. e.*, there is established "The Laura Seasongood Alcove," for which books are purchased with the interest derived from the legacy.

In 1896 the Alumni of the University gave $700 to equip the Gymnasium.

In 1897 Christian Moerlein gave $1,000 to equip the Department of Physics.

In 1898 W. A. Procter gave the Robert Clarke Library, consisting chiefly of Americana, including many rare books and numbering 6,761 volumes. In 1899 he gave the Enoch T. Carson Shakspere Library, comprising, together with a collection of books on the drama, 1,420 volumes; and in 1900, the chemical library of T. H. Norton, containing 992 volumes.

In 1898 Lewis Seasongood gave $500 to the Latin department, for the purpose of furnishing an alcove in the library with the latest Latin and Semitic works.

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In 1898 Charles F. Windisch gave a unique and extensive collection of 500 micro-photographs of snow crystals.

In 1899 David Sinton gave $100,000 upon the expressed condition and agreement that the net revenue or income derived therefrom shall be expended, within the discretion of the Board of Directors, in maintaining the Academic Department of the University.

In 1899 the Endowment Fund Association, consisting of Alumni of the University, established the Cornelius George Comegys Scholarship, with a $50 stipend.

In 1899 Andrew Hickenlooper gave a Westinghouse gas-engine, valued at $800.

In 1901 the sum of $5,000, made up of contributions from many persons, was expended in grading and fitting the grounds of an Athletic Field near the University in Burnet Woods Park.

Valuable gifts of books have been made, at various times, by Eugene F. Bliss, Judge Moses F. Wilson, Dr. A. J. Carson, E. K. Stallo, Esq., Gen. R. B. Cowen, Mrs. Alphonso Taft, Rev. George A. Thayer, Mrs. John A. Cranch, of Urbana, O., Dr. O. Everts, Jones Brothers Publishing Company, James Guthrie, S. P. Bishop, Julius Dexter, Prof. W. O. Sproull, Prof. P. V. N. Myers, Sarah Gray, Herbert Jenny, Dr. Howard Ayers, Dr. G. Wakeman, B. Ehrman, C. H. Harrison, William S. and Abbie Heyward, Jane Dodd, Emily Poole, A. G. Moses, Conway McMillan, Ernst Richter, the students of the English Department, the English Seminary, Mrs. Elizabeth Hutchins, Miss Knott, Mrs. Wm. E. Merrill, Lane Seminary, Prof. J. M. Burnam, Prof. E. M. Brown, Prof. H. T. Cory, Cincinnati Technical School, Dr. J. E. Ives, Francis

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G. Cleneay, the United States Government, New Hampshire State Library, New York State Library, West Point Academy, John Crear Library, Bowdoin Library, Meadville Theological School and the Phi Gamma Delta Society.

C. T. Webber gave a portrait in oil of the poet Joaquin Miller; the Rev. P. Robertson, a portrait of the poet Burns.

The Lane & Bodley Company gave a model stamp machine for crushing gold-bearing quartz.

VI. ENDOWMENT OF THE UNIVERSITY.

The following table shows the total endowment of the University, including buildings, equipment and all sources of revenue:

Real estate devised by the will of Charles McMicken with improvements built out of the income, estimated at	$700,000 00
Buildings, apparatus, furniture, etc., paid for by the issue of city bonds, buildings erected on McMicken Avenue and in Burnet Woods Park	178,411 00
The Observatory, instruments and furniture presented by the Cincinnati Astronomical Society	8,000 00
Real estate given by John Kilgour, Esq.	10,000 00
Cash given by John Kilgour, Esq.	10,000 00
Endowment for Observatory by Julius Dexter	1,000 00
The Browne endowment	20,166 01
Devise of Matthew Thoms	130,000 00
Gift of Henry Hanna, Esq., for the erection of Hanna Hall	49,091 00
Gift of Henry Hanna, Esq., for the equipment of Hanna Hall	20,000 00

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Gift of Laura Seasongood for library purposes, $800, less $30, the collateral inheritance tax		770 00
Gift of Briggs S. Cunningham for the erection and equipment of Cunningham Hall		60,000 00
Gift of Asa Van Wormer for the erection of the Van Wormer Library, 1,000 shares of stock in the Cincinnati Street Railway Company, par value		50,000 00
Gift of W. A. Procter of the Robert Clarke Library, estimated at		50,000 00
The David Sinton endowment		100,000 00
Gift for the erection of shops for the College of Engineering and Technological School		22,500 00
Gift of equipment for shops		50,000 00
Gift of funds for Athletic Field		5,000 00
Gift of funds for University Press		5,500 00
Tax levy for 1902	$64,909 74	
Less sinking fund and interest on bonds	7,400 00	
Net revenue from taxes for support of the University and Observatory	$57,509 74	
Which capitalized at 3 per cent. represents an endowment of		1,916,991 33
Total endowment		$2,260,761 33

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DEPARTMENTS OF THE UNIVERSITY.

1. THE ACADEMIC DEPARTMENT, in Burnet Woods Park.

2. THE GRADUATE DEPARTMENT, in Burnet Woods Park.

3. THE COLLEGE OF ENGINEERING, in Burnet Woods Park.
   - Mechanical Engineering.
   - Civil Engineering.
   - Electrical Engineering.
   - Chemical Engineering.

4. THE TEACHERS COLLEGE, in Burnet Woods Park.

5. THE UNIVERSITY SUMMER SCHOOL, in Burnet Woods Park.

6. THE UNIVERSITY LIBRARY, in Burnet Woods Park.

7. THE ASTRONOMICAL DEPARTMENT.
   (The Cincinnati Astronomical Observatory), on Mt. Lookout.

8. THE MEDICAL DEPARTMENT.
   (The Medical College of Ohio), on Clifton Avenue.

9. THE LAW DEPARTMENT.
   (The Cincinnati Law School), on Ninth Street, between Vine and Race Streets.

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10. THE CLINICAL AND PATHOLOGICAL SCHOOL OF THE CINCINNATI HOSPITAL.
(Affiliated.)

11. THE OHIO COLLEGE OF DENTAL SURGERY, East Court Street.
(Affiliated.)

12. THE TECHNICAL DEPARTMENT, in Burnet Woods Park.
(The Cincinnati Technical School.)

The total number of Laboratories in the University is 55.

The total number of volumes in the University Libraries, including pamphlets, is 148,463.

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THE ACADEMIC DEPARTMENT.

FACULTY, INSTRUCTORS AND OTHER OFFICERS OF THE ACADEMIC DEPARTMENT.*

HOWARD AYERS, Ph.D., LL.D., 299 Southern Av., Mt. Auburn
President of the University and Professor of Anthropology.

WAYLAND RICHARDSON BENEDICT, A. M.,
Brookline Avenue, Clifton
Professor of Philosophy.

JERMAIN GILDERSLEEVE PORTER, Ph.D., Mt. Lookout
Professor of Astronomy and Director of the Observatory.

EDWARD MILES BROWN, Ph.D., The Auburn Hotel
Professor of the English Language and Literature.

FREDERICK CHARLES HICKS, Ph.D.,
130 Wellington Place, Mt. Auburn.
Sinton Professor of Economics and Civics

HARRIS HANCOCK, Ph.D., Dr.Sc,. The Auburn Hotel
Professor of Mathematics.

JOHN MILLER BURNAM, Ph.D., ** The Sterling Hotel
Professor of Latin.

MAX POLL, Ph.D., 230 McCormick Place, Mt. Auburn
Professor of the Germanic Languages.

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* Arranged, with exception of the President, in the order of seniority of appointment.

** Absent on leave for the year 1903-04.

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JOSEPH EDWARD HARRY, Ph.D.,
The Kensington Hotel, Mt. Auburn
Professor of Greek and Dean of the Academic Department.

MERRICK WHITCOMB, Ph.D., 2344 Ohio Ave.
Professor of History.

LOUIS TRENCHARD MORE, Ph.D., 305 Pike St.
Professor of Physics.

THOMAS EVANS, Ph.D., 440 Ludlow Ave.
Professor of Technical Chemistry.

MICHAEL FREDERIC GUYER, Ph.D., 228 Loraine Ave., Clifton
Professor of Biology.

GEORGE MOREY MILLER, A.M., Riddle Road
Assistant Professor of English.

JOHN HOWARD MELISH, A. B., B. D., 318 E. 4th St.
Lecturer on the Bible.

JOHN FRANKLIN REIGART, 222 Albion Place
Lecturer on Pedagogy.

MARCO F. LIBERMA, A.B., 219 Bodman Ave.
Assistant Professor of Romance Languages.

GEORGE DEPUE HADZSITS, Ph. D. 3231 Bishop St.
In charge of the Latin Department during the absence of Professor Burnam.

SIMON STEIN BASSLER, L. F. O., 920 W. 8th St.
Lecturer on Meteorology.

ANTHONY W. CHEZ, 412 Carmalt St.
Director of Physical Culture.

FLORENCE CAMERON LAWLER, B. S.,
1380 Myrtle Ave., Walnut Hills
Instructor in Mathematics.

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JOHN TUCKER MURRAY, A. M., 125 W. McMillan St.
Instructor in English.

STEPHEN ELMER SLOCUM, B. E., Ph.D., 445 Ludlow Ave.
Instructor in Applied Mathematics.

HARRIS M. BENEDICT, A.M., 3231 Bishop St.
Instructor in Biology.

WILLIAM BAUR, Ph.B., Highland Ave. and Oak St.
Instructor in Germanic Languages.

JOHN FERGUSON SNELL, Ph.D., 3231 Bishop St.
Instructor in Chemistry.

DE LISLE STEWART, Ph. D., Mt. Lookout.
Instructor in Astronomy.

PHILIP WARNER HARRY, Ph. D., 56 Rochelle St.
Instructor in Modern Languages.

GEORGE HENRY ALLEN, Ph. D., 3003 Scioto St.
Instructor in Latin.

ARTHUR GUY TERRY, Ph. M. 2823 Scioto St.
Instructor in History.

WILLIAM BELL CARTMEL, A. M. The Auburn Hotel
Instructor in Physics.

JOHN WILLIS SLAUGHTER, Ph. D., The Roanoke
Instructor in Psychology.

MRS. ANTHONY W. CHEZ, 412 Carmalt St.
Instructor in Physical Culture.

HARRY SHIPLEY FRY, A. M., 417 Tusculum Ave.
Assistant in Chemistry.

ELSIE LAURETTA METZ, A. B., 2648 Melrose Ave.
Teaching Fellow in Modern Languages.

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ARTHUR JAMES KINSELLA, A. B., Hopple St., N. Fairmount
Teaching Fellow in English.

MABEL GINEVRA SPELLMIRE, A.B., Observatory Road
Teaching Fellow in Biology.

HARRY LEWIS WIEMAN, 1031 Gest St.
Student Assistant in Physics.

EARL FARNAU, Covington, Ky.
Student Assistant in Physics.

OTHER OFFICERS OF THE FACULTY.

JOHN HOWARD MELISH, A. B., B. D., 318 E. 4th St.
Chaplain.

LELIA AMANDA GARVIN, B. L., 1200 Cypress St.
Registrar.

LIBRARIAN AND LIBRARY ASSISTANTS.

HARRIET EVANS HODGE, 3405 Clifton Ave.
Librarian.

MINNIE CLARKE BRIDGMAN, B. L. S., 3410 Clifton Ave.
Loan Desk Assistant.

PAULINE GUNTHORP, B.L., B.L.S., 451 Ludlow Ave.
Head Cataloguer.

SARAH BELL WALLER, B.S., 3465 Evans Place
Assistant Cataloguer.

RUTH WOOLMAN, A. B., 2135 Fulton Ave.
Library Assistant.

PLATT BISHOP EVENS, 203 W. Fifth St., Covington, Ky.
Mechanician.

HAROLD POWELL MURRAY, 2274 Vine St.
Manager of University Press.

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COMMITTEES OF THE FACULTY

1903–1904.

		Professors.
1.	Accredited Schools,	REIGART, HICKS.
2.	Advisory for Freshmen and Election of Studies,	GUYER, HANCOCK, POLL.
3.	Athletics and Gymnasium.	HARRY.
4.	Discipline,	AYERS.
5.	Fellowships, Scholarships and Prizes,	HARRY, WHITCOMB, EVANS,
6.	Graduate Work,	WHITCOMB, GUYER, HANCOCK.
7.	Library,	BURNAM, WHITCOMB, REIGART.
8.	Museum and Collections,	GUYER, PORTER, EVANS.
9.	Public Exercises,	MORE, BURNAM, HICKS.
10.	Schedule of Studies,	HANCOCK, HICKS, MARX.
11.	Student Organizations,	POLL, MORE, MARX.
12.	Summer School,	EVANS, BENEDICT, EDDY.
13.	University Catalogue,	BROWN, POLL, MORE.
14.	University Chaplain,	MR. MELISH,

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REQUIREMENTS FOR ADMISSION TO THE ACADEMIC DEPARTMENT.

A student who has pursued successfully in any approved preparatory school any one of the subjects mentioned in the list on the next page, four hours a week for one school year, is entitled to one Credit.

Two hours of laboratory work count as the equivalent of one hour of recitation.

Fourteen credits are required for admission to the Academic Department.

The fourteen credits offered must include the following eight:

2 credits in English.

2 credits in either Latin, Greek, French or German.

2 credits in Mathematics.

1 crédit in Science (Physics, Chemistry, Botany, Zoology).

1 credit in History.

Candidates for admission who are unable to furnish a certificate from an approved school may be admitted on examination.

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TABLE OF CREDITS.

Greatest Number of Credits Accepted for Admission	Subject	Recitation: Number of Hours per Week	Recitation: Number of Weeks per year	Number of Years	Expressed in Credits
3 { 2	Eng. Composition				
3 { 2	Eng. Literature				
4	Latin				
3	Greek				
2	French				
2	German				
2	Spanish				
3½ { 1½	Algebra				
3½ { 1½	Geometry				
3½ { 1	Trigonometry				
2	Physics*				
2	Chemistry*				
3 { 2	Zoology*				
3 { 2	Botany*				
3 { 1	Physiology*				
2 {	History General				
2 { ½	" English				
2 { ½	" Greek & Roman				
2 { ½	" American**				
Total, 28½					

* If two credits are granted in either Physics, Chemistry or Biological subjects, one must be for laboratory work.

** American History must be the equivalent of a Study of Channings's History of the United States.

Except where otherwise provided in the schedule above, work which is not equivalent to one full credit in any subject will not be accepted.

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ADMISSION ON CERTIFICATE.

Many preparatory schools and high schools have been placed upon the approved list. See pages 53-55.

Students from any of these schools may enter the Academic Department without examination, upon the presentation of a certificate, signed by the principal of the school, certifying that the student has completed all the work required for admission. All certificates presented for admission must specify the work actually done, and the grade received for each course.

Blank certificates may be obtained from the Registrar of the University.

Students unable to furnish a certificate from an approved school may be admitted on examination.

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LIST OF APPROVED SCHOOLS.

This list is subject to annual revision.

Alexandria, Ind., High School, Jacob G. Collicott, Principal. Anchorage, Ky., Bellewood Seminary, W. G. Lord. Anderson, Ind., High School, J. B. Perry. Ashland, Ky., High School, J. G. Crable. Athens, O., High School, C. C. Henson. Aurora, Ind., High School, Miss A. Suter. Bellaire, O., High School, Alice Cunningham. Bellefontaine, O., High School, H. A. Cassidy. Bethel Township, O., Township High School, F. W. Huston. Broad Ripple, Ind., High School, R. E. Harris. Butler, Ind., High School, C. W. Kimmel. Canton, O., High School, John W. Sarver. Cedar Point, O., St. Gregory's Preparatory Seminary. Chillicothe, O., High School, Ralph R. Upton. Cincinnati, O., Miss Butler's School, Miss Sarah Butler. Cincinnati, O., The Bartholomew-Clifton School, Miss E. A. Ely. Cincinnati, O., Madame Fredin's School, Blanche M. Fredin. Cincinnati, O., Franklin Private School, Messrs. White & Sykes. Cincinnati, O., Miss Lupton's School for Girls, Miss K. M. Lupton. Cincinnati, O., The Collegiate School for Girls, Misses Collins and Doherty. Cincinnati, O., Ohio Military Institute. Cincinnati, O., Technical School, C. W. Marx. Cincinnati, O., The H. Thane Miller School, Mrs. H. T. Miller. Cincinnati, O., Hughes High School, E. W. Coy. Cincinnati, O., Walnut Hills High School, J. Remsen Bishop. Cincinnati, O., Woodward High School, A. M. Van Dyke. Cleveland, O., Central High School, Edward L. Harris. Cleveland, O., Library West High School, Theo. H. Johnson. Cleveland, O., South High School, G. A. Ruetenik. Cleveland, O., East Cleveland High School, W. H. Kirk. Clinton, Ind., High School, Wm. F. Clarke. Collinswood, O., High School, F. P. Whitney. Columbia City, Ind., High School, C. L. Hottel. Columbus, O., High School, C. D. Everett. Columbus, O., East High School, F. B. Pearson. Columbus, O., University School, F. L. Cole. Covington, Ind., High School, W. P. Hart. Covington, Ky., High School, John M. Hall. Covington, Ky., Rugby Preparatory School, K. J. Morris. Dayton, O., English and Classical School, A. B. Shauck. Dayton, O., Steele High School, Chas. L. Lors,

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Jr. Dayton, O., St. Mary's Institute, Rev. C. Eichner. Decatur, Ind., High School, Lelle M. Legar. De Graff, O., High School, Harriet E. Shover. Elkhart, Ind., High School, S. B. McCracken. Elyria, O., High School, H. M. Ebert. Evansville, Ind., High School, Robert Spear. Fort Wayne, Ind., High School, Chester T. Dane. Gallipolis, O., High School, C. W. Boettisher. Gambier, O., Kenyon Military Academy, H. N. Mills. Geneva, Ind., High School, Robt. Poer. Georgetown, O., High School, A. F. Waters. Glasgow, O., Liberty College, J. H. Burnett. Glendale, O., High School, E. H. Foster. Greencastle, Ind., High School, Martha P. Ridpath. Greensburg, Ind., High School, Geo. L. Roberts. Hamilton, O., High School, W. P. Cope. Hammond, Ind., High School, W. Belman. Hartwell, O., High School, J. L. Trisler. Hobart, Ind., High School, A. R. Hardesty. Home City, O., High School, J. O. Falkenburg. Huntington, Ind., High School, Miss E. E. Lewis. Kendallville, Ind., High School, D. A. Lambright. Kokomo, Ind., High School, J. L. A. McCaughan. Lafayette, Ind., High School, Russell K. Bedgood. La Porte, Ind., High School, I. W. Warren. Lawrenceburg, Ind., High School, T. H. Meek. Lebanon, O., High School, G. O. Sikes. Lebanon, Ind., High School, James R. Hart. Liberty, Ind., High School, P. B. Nye. Lima, O., High School, S. Heffens. Lockland, O., High School, S. F. Dial. Logan, O., High School, T. E. Pierpont. Logansport, Ind., High School, J. M. Ashby. Louisville, Ky., Girls' High School, W. H. Bartholomew. Lyndon, Ky., Military Institute, C. W. Fowler. Martinsburg, W. Va., High School, C. H. Cole, A.M. Martin's Ferry, O., High School, M. D. Morris. Martinsville, Ind., High School, W. D. Kerlin. Marysville, O., High School, L. B. Demorest. Mayfield, Ky., West Kentucky College, M. Elliott, President. Monticello, Ind., High School, J. W. Hamilton. Montpelier, Ind., High School, W. S. Bull. Mt. Vernon, Ind., High School, E. S. Monroe. Mt. Sterling, Ky., High School, H. M. Gunn. Mt. Sterling, Ky., Goodwin's High School, M. J. Goodwin. Nappanee, Ind., High School, S. W. Baer. Newport, Ky., High School, C. G. Hammond. New Vienna, O., High School, Frank Stamats. N. Manchester, Ind., High School, J. H. Wagner. Norwood, O., High School, W. S. Cadman. Painesville, O., High School, F. A. Ken-

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dall. Parkersburg, W. Va., High School, H. T. Upson. Pendleton, Ind., High School, E. D. Allen. Peru, Ind., High School, H. L. Hall. Pleasant Ridge, O., High School, T. L. Simmermon. Poland, O., High School, R. H. Gault. Portsmouth, O., High School, J. I. Hudson. Princeton, Ind., High School, Wm. F. Book. Ravenswood, W. Va., High School, W. L. McCowen. Rockport, Ind., High School, F. S. Morgenthaler. Rockville, Ind., High School, J. F. Thorton. St. Mary's, O., St. Mary's High School, Miss A. Sherwood. Salem, Ind., High School, Lotus D. Coffman. Sandusky, O., High School, H. V. Morton. Savannah, O., Academy, R. H. Bransen. Sidney, O., High School, Ira C. Painter. Somerset, Ky., High School, A. Livingston. South Whitley, Ind., High School, O. H. Bowman. Taylorsville, Ky., Spencer Institute, Rev. G. C. Overstreet. Sullivan, Ind., High School, F. M. Price. Terrace Park, O., High School, Miss Eva Loudon. Terre Haute, Ind., High School, Chas. S. Meek. Tippecanoe City, O., Union School, J. W. Swartz. Toronto, O., High School, A. Grove. Urbana, O., University Preparatory Department, J. H. Williams. Washington C. H., O., High School, J. A. Harlon. Warsaw High School, Miss T. C. Felbaum. Wellsburg, W. Va., High School, C. E. Githens. Wellston, O., High School, R. L. Ervin. West Liberty, O., High School, W. S. Jones. Wheeling, W. Va., High School, H. B. Work. Williamsport, O., High School, Edgar Webb. Willoughby, O., High School, Fred M. Wood. Wilmington, O., High School, J. H. Hayworth. Wilmore, Ky., Asbury College, Rev. J. W. Hughes. Winchester, Ind., High School, Lee L. Driver. Wyoming, O., High School, C. S. Fay. Xenia, O., High School, G. J. Graham. Zanesville, O., High School, W. M. Townsend.

Madisonville, O., High School, E. D. Lyon.

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ADMISSION ON EXAMINATION.

Examinations for admission will be held on September 29, 30 and Oct. 1, 1904.

Candidates for admission on examination will report, on one of the days named above, to the Registrar, who will assign to them their examinations.

REQUIREMENTS FOR ADMISSION ON EXAMINATION.

1. In English.—(*a*) Composition. Ability to write clear and correct English. Preparation should include the fundamental principles of rhetoric and much practice in writing, under the careful correction of the teacher. The study of a few English classics is also essential to success in composition.

(*b*) Literature.—A. For Reading.

1904: Addison's The Sir Roger de Coverley Papers; Coleridge's The Ancient Mariner; George Eliot's Silas Marner; Goldsmith's The Vicar of Wakefield; Scott's Ivanhoe; Shakspere's The Merchant of Venice and Julius Cæsar; Tennyson's The Princess; Lowell's The Vision of Sir Launfal; Carlyle's Essay on Burns.

B. For Study.

1904: Burke's Speech on Conciliation with America; Macaulay's Essays on Milton and Addison; Milton's Minor Poems; Shakspere's Macbeth. Equivalents may be offered for these books. The candidate will be required to show his proficiency by writing two papers of 400 words each on subjects selected from the books read.

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2. In Latin.—The student must have had four years of preparation equal to that furnished by the Approved Schools. In general, this means a firm grounding in the forms and syntax of the language, the acquisition of a good vocabulary and some practice in Latin composition. The authors usually presented at other institutions are accepted here, viz.: Cæsar, Cicero and Vergil. It is recommended that teachers make five books of the Gallic War the basis of their calculations, but that a selection be made of those passages which are in themselves most interesting, not only for the information they convey, but also for their evidence as to the versatility of the author's tastes in geography, ethnography, etc. Often young students find some easy work, like the *Viri Romae* or Eutropius, a good gate to Cæsar's difficulties; Nepos, too, serves as a fair substitute, and Sallust may always replace some of the Gallic War.

In Cicero, besides the Catilinarian group and the Defense of Archias, some longer speech should be read (e. g. on the Manilian Law or *Actio I in Verrem*), or a brief essay, like *Cato Major* or *Laelius*.

Before the student reads Vergil, it is well to give him several hundred lines of Ovid. The same author may be used, parallel with Vergil, for sight reading. It is recommended that for Book V of the Aeneid portions of the Georgics, or selections from the Aeneid, Books VII-XII, be read. In the latter case, the Shield of Aeneas and the antiquarian parts of Book VIII are most likely to be interesting. In connection with all of the books read, teachers will do well to have some reading at sight, either from the author actually in hand or some other. Use Cicero, so far as possible, in the prose work.

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3. In Greek.—(*a*) White's Beginner's Greek Book (or an equivalent).

(*b*) Xenophon's Anabasis, four books.

(c) Homer's Iliad, six books.

(*d*) Grammar (Goodwin, or Hadley-Allen).

(*e*) Composition in easy Attic prose.

4. In Romance Languages.—The degree of knowledge of French and Spanish required for admission is equivalent, approximately, to that which a student should gain from the elementary courses in these languages given in the University. Of prime importance is the acquisition of a correct pronunciation. The student should be familiar with the inflections of the language, and the forms of the stem-changing and irregular verbs. He should also have a command of the more elementary rules of construction, such as the use of article, adjective and pronoun, negation and interrogation, participial agreement, and the order of words. He should possess a fair vocabulary, derived from the careful reading of at least 500 or 600 pages of works of the last century. This vocabulary he should be able to use, not only in translating easy prose into English, but also in rendering simple connected prose into the language studied.

5. In German.—(*a*) The translation at sight of simple German prose.

(*b*) The translation into German of easy connected prose, to test the candidate's familiarity with elementary grammar.

The candidate ought to have read not less than 200 pages of easy German.

6. In Mathematics.—Arithmetic. A good working knowledge of greatest common divisor and least common

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multiple; vulgar and decimal fractions; percentage; square root and cube root; the metric system of weights and measures.

Algebra. Through quadratic equations involving two variables; evolution; indices; surds; roots.

Plane Geometry. As given, for example, in the first five books of Chauvenet's Treatise on Elementary Geometry.

7. In Physics.—Entrance credit in Physics requires the completion of one year's work of three periods a week. The examination questions will be selected from Balfour Stewart's, Hall and Bergen's, and Gage's elementary text-books on Physics.

8. In Chemistry.—The candidate must pass satisfactorily an examination testing his familiarity with the elementary principles of Chemistry and with simple laboratory manipulation, as treated in "An Experimental Chemistry," by L. C. Newell, or its equivalent.

9. Botany and Zoology.—The candidate applying for credits of admission in Botany or in Zoology will be required to present his original note-book, together with the dates and the endorsement of his teacher, certifying that the book is a true record of the pupil's own work. It is desirable that the note-book shall contain observations upon at least fifteen principal forms. He must also demonstrate in the laboratory his ability to observe accurately and to record his observations intelligently; and he must answer in writing general questions, (*a*) (in Zoology) upon familiar animals, such as the frog, earthworm, amoeba, crayfish, etc., or (*b*) (in Botany) upon common plants such as the fern, moss, toadstool and simple flowering plants.

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10. In Physiology.—The candidate must pass satisfactorily an examination on (1) the essentials of human anatomy; (2) the fundamental processes of physiology, such as digestion, circulation, respiration and assimilation; (3) the elementary principles of hygiene.

11. In History.—General History (Myers, Barnes, or G. B. Adams), three times a week for one year. American History, the equivalent of a study of Channing's History of the United States.

SPECIAL ADMISSION.

Persons at least twenty years of age may be admitted as special students to lecture and laboratory courses. They will be required to pass such of the examinations for admission as the Dean may designate, and to satisfy the head of the department concerned of their ability to carry on the work profitably in the subject chosen. For the fees charged see page 63.

REGISTRATION.

The days for registration are September 29, 30 and Oct. 1, 1904.

Students who register on any other days than those designated above will be required to pay a registration fee of *one dollar.*

ELECTION OF STUDIES.

All courses are elective. At the beginning of the second year's work in the Academic Department the student is required to choose a major and two minor subjects. To the major subject he must give 36 hours, and to each of the minor subjects 27 hours, before he shall be permitted to graduate. No change in major or minor subjects may be made

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after the beginning of the junior year. The selection of the remaining courses required for a degree is entirely unrestricted, except that no student is permitted to elect courses in more than five subjects in any one quarter, and that all courses elected must be completed.

After filling out a registration blank, paying the library fee and receiving his certificate of matriculation, the student should then fill out an election blank, which must be filed with the Registrar before the student is admitted to classes.

The election blank must be filled out and deposited with the Registrar within the three registration days.
Each course must be designated by the department, the number of the course, the special title, and the number of hours credit, *e. g.*:

English 1, Rhetoric and Composition.....2
Mathematics 2*a*, Trigonometry..... 4

Credit will be given for the number of hours officially published with the course, and for no more.

University work not regularly registered is forbidden.

Without permission from the Faculty, no student shall elect courses amounting to more than eighteen, or less than twelve hours a week, of university work. In all laboratory courses two and a half hours in the laboratory are considered as equivalent to one recitation hour and the preparation there-for. The same is true of courses in the drawing room or the shop.

The regulation specifying the minimum number of hours to be elected by students, viz: 12 hours, applies to all students irrespective of the amount of credit they may have on the books of the University.

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Especial care should be taken to note the advertised hours of courses, in order that conflicts may be avoided. Enrollment by the instructors will take place in the rooms and at the hours designated for the meeting of the classes.

No change in schedule will be allowed after the expiration of one week.

Students who fail to present their election blanks at the proper time will be charged a fee of *one dollar.*

All courses elected for a term must be completed, unless the student withdraws for the term, in which case credit will not be given for any of the work elected for that term. In case the student returns to the University at some later term, he must complete the work previously elected before going on with new work, i.e., courses once elected become required work.

No subject can be discontinued, and no change in a schedule of study can be made during the term, except as stated above.

SPECIAL STUDENTS.

Persons taking fewer than the minimum of 12 hours, as well as all those entering under the regulation for "special admission," are special students.

The unit of instruction in the University is one hour per week for one term of twelve weeks.

SPECIAL ARRANGEMENTS WITH THE LAW DEPARTMENT.

A student who has received credit for the work of the first two years in the Academic Department may, in the third year, elect from four to six hours of the lectures of the first year of the Law School course, as a substitute for

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studies in the Academic Department, and in the following year he may, in the same way, take the remainder of the ten hours of the first year's course in the Law School.

PAYMENTS TO THE UNIVERSITY.

All fees must be paid in advance to the Clerk of the Board of Directors, at the beginning of each term and no University fees are refunded.

INCIDENTAL.—All students must pay an incidental or library fee of *five dollars* each academic year.

REGISTRATION.—Students who apply for registration, or submit schedules of study, on days other than those designated in the calendar will be required to pay a fee of *one dollar.*

EXAMINATION.—A fee of *one dollar* will be charged for each supplemental examination.

TUITION.—Non-residents of Cincinnati are charged a tuition fee of *seventy-five dollars* a year. No tuition is charged *bona fide* residents of Cincinnati and alumni of this University.

Special students are charged a fee of *two dollars* per hour of instruction per week, per term.

Graduates, not alumni of this University, and not residents of Cincinnati, are charged a fee of *two dollars* per hour of instruction per week, per term.

DIPLOMA.—Students who receive the Baccalaureate degree are charged a diploma fee of *five dollars;* those who receive the Master's degree, a fee of *ten dollars.* These fees must be paid at least two weeks before the day appointed for conferring the degree.

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LABORATORY.—Students who take laboratory courses in Biology, Chemistry, Engineering and Physics are charged *five dollars* a term for wear and tear of apparatus and materials in elementary courses, and *ten dollars* in advanced courses.

Laboratory fees in courses for teachers are payable at the beginning of the course and hold good during the entire course.

WITHDRAWAL.

It is required, as a condition of honorable dismissal, that every student who wishes to withdraw from the University shall submit to the Registrar a written request to that effect.

ADMISSION TO ADVANCED STANDING.

Students may be admitted to advanced standing either (*a*) upon presentation of a certificate from a college of approved standing, or (*b*) by examination. But candidates for advanced standing will be examined in such courses only as may reasonably be anticipated by examination. Permission must be obtained in each case from the head of the department in which advanced standing is desired.

All claims for advanced standing must be made within 3 weeks after admission to the Academic Department.

ANTICIPATORY EXAMINATIONS IN GERMAN.

A student who is not able to furnish a certificate from an approved school, stating that he is qualified to take a higher course in German than the one for beginners, may anticipate Course 1 (first-year German), or Course 2 (second-year German), or Course 4 (third-year German), by passing a written examination .

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REQUIREMENTS FOR ANTICIPATING COURSE 1.

(*a*) The translation at sight of simple German prose.

(*b*) The translation into German of easy connected prose, to test the candidate's familiarity with elementary grammar.

The candidate ought to have read not less than 200 pages of easy German.

REQUIREMENTS FOR ANTICIPATING COURSE 2.

(*a*) The translation at sight of ordinary German.

(*b*) The translation into German of a connected passage of English prose, to test the candidate's familiarity with grammar. The candidate ought to have read not less than 600 pages of classical and contemporary prose and verse.

REQUIREMENTS FOR ANTICIPATING COURSE 4.

(*a*) The translation and interpretation of passages from the following works: Lessing's Emilia Galotti, Goethe's Iphigenie, Egmont and Tasso, Schiller's Jungfrau von Orleans, Maria Stuart and Wallenstein.

(*b*) The writing of a theme in German on a topic suggested by one of the works mentioned above.

EXAMINATIONS IN COURSE.

The Academic year is divided into three terms, of twelve weeks each. Examinations are held at the end of each term, and the standing for the term of all students is reported by the instructors to the Registrar. Below is given the scale of marks adopted for recording the grades of

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students in the Registrar's office. The table gives the numerical equivalents of the letters:

A, 100 to 96; highest distinction.
B, 95 to 91; distinction.
C, 90 to 81; passed well.
D, 80 to 71; passed.
E, 70 to 50; conditioned.
F, below 50; not passed.

Students who receive a grade below 50 must repeat the work in class the next time the course is given, and no exceptions to this rule will be allowed.

REMOVAL OF CONDITIONS.

Conditions may not be removed except by examination or by repetition of the course in class. If by examination, such examination may not be held earlier than the final examination period of the next term following, giving an interval of twelve weeks for preparation.

Dates of examination for making up conditions will be set by the Dean, after consultation with the heads of the departments in which conditions have been incurred.

In the removal of conditions a fee of $1.00 must be paid for the special examination.

Students who have been absent from final examinations on account of sickness should be referred to the Dean.

In case a condition is not removed before the subject is given again, it becomes a failure, and the subject must then be taken in class.

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REQUIREMENTS FOR THE DEGREE.

The degree of Bachelor of Arts is the only degree given in the Academic Department. Credit on the Registrar's books for 186 units of instruction is required for the Bachelor's degree, of which amount 36 units must be given to the courses of one department of instruction and 27 units each to those of two other departments. This work must be selected from among the courses offered in the following departments of instruction: Astronomy, Biology, Chemistry, Carving, Drawing Economics, English, German, Greek, History, Latin, Mathematics, Meteorology, Modeling, Philosophy, Physics, Psychology, Romance Languages, Pedagogy.

LIBRARIES.

The University Library, now in the Van Wormer Library building, contains about 40,000 volumes and 6,000 pamphlets. Additions for the past three years have averaged 8,000 volumes annually.

In the Reference room about 2,000 volumes are arranged on open shelves, to which the students have free access.

The Library is open every week-day from 8 A. M. to 5 P. M.

Some of the most valuable collections in the Library are:

1. The Robert Clarke Library, comprising 6,761 volumes, given by William A. Procter, of Cincinnati. This

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collection is especially rich in Americana, and contains some very rare first editions. There are also many volumes of a miscellaneous nature, including history, geology, archaeology, biography, numismatics, English literature, Scottish ballads, publications of the Scottish Text Society, and early specimens of the art of printing.

3. The Enoch T. Carson Shakspere Library, 1,420 volumes, also given by William A. Procter. This valuable collection contains copies of the most important editions of Shakspere of the eighteenth and nineteenth centuries; facsimiles of the early quartos (both the rare set prepared by Mr. E. W. Ashbee and the cheaper set published by Mr. W. Griggs, under the supervision of Dr. F. J. Furnivall); the photo-zincographic reproduction of the First Folio (prepared under the direction of Howard Staunton); the publications of the "Old Shakespeare Society" (nearly complete); a large number of engravings and water colors (many of them collected by the actor Burton) illustrating the text of the plays and bound up with the texts of Boydell and of Knight; rare first editions of single plays by dramatists of the seventeenth and eighteenth centuries; and miscellaneous works on Shakspere and on the drama.

3. The William A. Procter Chemical Library, comprising 992 volumes of chemical works and chemical periodicals, given by William A. Procter.

4. The Bliss Library of Latin and Greek authors, 330 volumes, given by Eugene F. Bliss, of Cincinnati.

5. A set of the British poets, 126 volumes, besides miscellaneous books (50), also given by Mr. Bliss.

6. Nearly complete sets of the Edinburgh Review (113)

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and the Quarterly Review (110), given by the late Julius Dexter.

7. The Wilson Library, consisting mainly of works of literature and criticism, in English, French and Italian, 810 volumes, given by Judge Moses F. Wilson, of Cincinnati.

8. The Thoms Library, miscellaneous works, 197 volumes, the bequest of the late Matthew Thoms.

3. The Laura Seasongood Alcove, 74 volumes, containing books purchased annually from the proceeds of an endowment provided in 1894 by the will of the late Laura Seasongood.

10. The Merrill Library of valuable engineering works, 876 volumes, 478 pamphlets, and 185 maps, charts and photo-lithographs, presented by Mrs. William E. Merrill.

11. The Whittaker Medical Library, the bequest of Dr. James T. Whittaker to the Medical College of Ohio, comprising 1,547 volumes and 538 pamphlets, and containing many valuable works on the Theory and Practice of Medicine and on Pathology.

12. Accessions to the library by gift during the year 1903, 840 volumes and 1,400 pamphlets.

13. The Library of the American Association for the Advancement of Science, which has been placed in charge of the University of Cincinnati, under the terms of an agreement with the Association, entered into on September 14, 1895. This collection consists at present of 5,600 volumes, for the most part periodical publications of foreign scientific societies.

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14. The Library of the Historical and Philosophical Society of Ohio, comprising 20,000 volumes and 64,000 pamphlets. This library is very rich in works on the history of Ohio, and contains valuable collections of original letters and other manuscripts, given by Aaron Torrence, in 1885, by the late Robert Clarke, in 1897, and by others.

By an agreement between the Board of Directors of the University of Cincinnati and the Historical and Philosophical Society of Ohio, made in 1899, the library of the society has been transferred to the Van Wormer Library, in Burnet Woods Park.

The total number of books in the Van Wormer Library is 70,000 volumes and 70,000 pamphlets.

To these collections must be added the libraries of departments of the University, situated in other parts of the city. These are:

The Library of the Observatory	3,393 volumes
The Library of the Law Department	6,500 volumes
The Library of the Medical Department	3,000 volumes
The Library of the Cincinnati Hospital	13,148 volumes
The Library of the College of Dental Surgery	800 volumes
Total	26,841 volumes

The libraries of the University, then, taken altogether, contain 96,441 volumes and 70,000 pamphlets.

THE VAN WORMER LIBRARY BUILDING.

The Van Wormer Library stands in Burnet Woods Park to the south of Cunningham Hall. It is built of Kentucky sandstone, in classic style, with two massive Ionic columns guarding the entrance. The building is

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three stories high. On the main floor is the delivery desk in the lobby, from which the doors open into the reading room and the periodical room. The catalogue stands in a light, convenient place in the lobby. The entrance to the book-stack on this floor is back of the delivery desk. The cataloguing room is connected directly with the book-stack and with the lobby. It is also connected by an elevator with the receiving room.

On the second floor, in the southern end of the building, are the rooms of the Historical and Philosophical Society of Ohio; in the northern end are the research rooms for investigators and advanced students. On the lower floor are the receiving, seminary, packing, storage and toilet rooms. A third of the building, on the eastern side, is occupied by the book-stack of steel and glass, which has a capacity of 100,000 volumes.

The Library building was given by Mr. Asa Van Wormer, of Cincinnati, and was erected in the years 1900 and 1901 at a cost of $60,000. It is fire-proof throughout, and is built in accordance with the most approved modern plans of library construction. The rooms have been furnished by the University with heavy tables and desks of quartered oak.

The Library is provided with a card catalogue of its own books, and also with card catalogues of the books in the Public Library of Cincinnati and in the Library of the Historical and Philosophical Society of Ohio.

The libraries of the Art Museum and of the College of Music, by a special arrangement, may be used by students of the University.

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CONVOCATION WEEK.

In accordance with the request of The American Association for the Advancement of Science, the University of Cincinnati has undertaken to co-operate with other American universities in setting aside the week in which the first of January falls as "Convocation Week," for the meeting of learned societies. The regular exercises of the University are suspended, therefore, during that week. In 1903-1904 the second term began on January 4, 1904.

UNIVERSITY BULLETINS.

The University Bulletins consist of two series of publications, designated the Literary and Scientific series, and the General series. The former consists of original contributions from the professors in the several departments of the University, and from others whose contributions are accepted for publication by the University, and such essays and contributions on historical, literary and scientific subjects as it may become desirable to preserve in permanent form.

The latter series consists of University catalogues and announcements of courses of study, circular letters to teachers and others, circulars of information, and the various other publications which the University may find it needful or advisable to publish for the dissemination of information, the publication of University regulations and the preservation of University records.

One series constitutes the contribution of the University to the intellectual life of to-day; the other is composed of the administrative records of the University as they are made day by day and year by year.

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Arrangements have been made to enter the University Bulletins in the postoffice as second-class matter, and they are issued quarterly or oftener.

The price to regular subscribers is fifty cents per year for the bulletins of the second series, while the price for the first series varies, and can not be determined until the time of publication.

The publication of these bulletins is very important for the furtherance of the work of the University, and they form a medium of communication between the administrative and teaching bodies on the one hand, and the alumni and friends of the University on the other, serving to keep them informed, in an authentic way, as to what the University is doing, what progress is being made, and what the outlook at any time may be.

UNIVERSITY OF CINCINNATI BULLETINS.

SERIES NO. I.—GENERAL.

No. 1. April, 1900.—Announcement of Summer School, 1900.

No. 2. September, 1900.—Announcement of the Academic Department.

No. 3. February, 1901.—University Catalogue.

No. 4. March, 1901.—Summer School, 1901.

No. 5. May, 1901.—Announcement—Illustrated Lectures in Biology.

No. 6. September, 1901.—Announcement of the Department of Psychology and Pedagogy.

No. 7. September, 1901.—The Technological School.

No. 8. Reminiscences of the Founding of the University.

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No. 9. October, 1901.—Thirtieth Annual Report of the Board of Directors of the University of Cincinnati.

No. 10.—Announcement of the Saturday Classes and a description of the work offered in Sloyd or Manual Training.

No. 11. February, 1902.—University Catalogue.

No. 12. March, 1902.—Technical School Circular.

No. 13. March, 1902.—College of Engineering.

No. 14. March, 1902.—The Summer School.

No. 15. April, 1902.—Announcement of the Law Department.

No. 16. May, 1902.—Catalogue of the Technical School.

No. 17. June, 1902.—Cincinnati University and her Benefactors.

No. 18. August, 1902.—Alumnal Register.

No. 19. September, 1902.—Announcement of Courses.

No. 20. September, 1902.—Saturday Courses in Sloyd and Manual Training.

No. 21. October, 1902.—The University Testing Laboratories and Bureau of Standards.

No. 22. October, 1902.—The Evening Classes in Engineering.

No. 23. December, 1902.—The Engineering Laboratory Test Book.

No. 24. December, 1902.—Saturday Classes for Teachers.

No. 25. December, 1902.—Thirty-fifth Annual Report of the Board of Directors of the University of Cincinnati.

No. 26. February, 1903.—University Catalogue.

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No. 27. March, 1903.—College of Engineering Announcement.

No. 28. March, 1903. — Summer School Announcement of the Technical School.

No. 29. April, 1903.–The University Summer School.

No. 30. October, 1903.–Thirty-second Annual Report of the Board of Directors of the University of Cincinnati.

No. 31. May, 1903.—Announcement of the Law Department, 1903-1904.

No. 32. June, 1903.—Announcement of the Medical Department, 1903-1904.

No. 33. May, 1903.—Catalogue of Technical School.

No. 34. May, 1903.—Courses of Study in the Academic Department.

No. 36. April, 1903. — Announcement of the New Term of the Technical School.

No. 37. September, 1903. — Saturday Classes for Teachers.

SERIES NO. 2.—SCIENTIFIC AND LITERARY.

Volume I.

No. 1. Morphology of the Myxinoidei, 1. Skeleton and Musculature. HOWARD AYERS and C. M. JACKSON.

No. 2. Morphology of the Myxinoidei, 2. C—Remarks on Homologies. HOWARD AYERS and C. M. JACKSON.

No. 3. The Placidus Commentary on Statius. J. M. BURNAM.

No. 4. Observations on the Efferent Neurones in the Electric Lobes of Torpedo Occidentalis. SHINKISHI HATAI.

No. 5. An Investigation of the Vascular System of Bdellostoma. C. M. JACKSON.

No. 6. A Misunderstood Passage in Aeschylus. J. E. HARRY.

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No. 7. Questions with μή and ἆρα μή. J. E. HARRY.

Volume II.

No. 8. Unity of the Gnathostome Type. HOWARD AYERS.

No. 9. Glossemata de Prudentio. J. M. BURNAM.

No. 10. The Crayfish of Missouri. MARY STEEL.

No. 11. Syllabus of Lectures on Darwinism and Evolution. M. F. GUYER.

No. 12. A list of the published works of the Academic Faculty of the University of Cincinnati.

No. 13. The Theory of Maxima and Minima involving several Variables. HARRIS HANCOCK.

No. 14. Butterflies and Moths. WM. OSBURN.

No. 15. The Use of KEKΛHMAI, and the meaning of Euripides, Hippolytus 1-2. J. E. HARRY.

No. 16. The Main Distinguishing Characteristics of the French, Spanish and Italian Languages. M. F. LIBERMA.

No. 17. France and Her Influence on the American Revolution. MAX B. MAY.

No. 18. The Use of the term "Enanthem." DR. F. FORCHHEIMER.

No. 19. The Dramatic Element in the Popular Ballad. G. M. MILLER.

No. 20. World Views and their Ethical Import. W. R. BENEDICT.

Volume III.

No. 21. Hybridism and the Germ Cell. M. F. GUYER.

No. 22. Spermatogenesis of Normal and of Hybrid Pigeons. M. F. GUYER.

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No. 23. Educational Science, No. 1.
No. 24. The Sources of Gulliver's Travels. MAX POLL.
No. 25. Grimm's Theory. MAX POLL.
No. 26. Educational Science, No. 2.
No. 27. Educational Science, No. 3.

LABORATORIES AND SHOPS.

The Academic and Engineering Departments have fully equipped the following laboratories and shops in the building in Burnet Woods Park. Both steam and electric power is supplied during University hours.

Laboratories.—Department of Biology, 8; Chemistry, 11; Physics, 8; Engineering, 6; Printing, 2.

Shops.—Wood-turning, Machine, Forge, Pattern, Carpenter, Drawing, Mechanician.

COURSES FOR TEACHERS.

Courses of lectures intended especially to meet the needs of teachers are given on Saturdays at the University buildings in Burnet Woods Park. The laboratories are also open to those who wish to do laboratory work, under the direction of an experienced instructor. It is easily possible, therefore, for teachers who live within reach of the University to carry on continuous courses of study, and to become acquainted with University methods of instruction. Credit is given on the books of the Registrar for work of a University grade done in these courses. This is but part of an extended course of instruction for teachers, offered in the Teachers College.

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SCHOLARSHIPS.

In the year 1899 the Endowment Fund Association, composed of alumni of the University, established the Cornelius George Comegys Scholarship, with a stipend of fifty dollars.

Besides this scholarship, there are five McMicken Honorary Scholarships and twelve Thoms Honorary Scholarships. These scholarships are awarded to the best scholars, as shown by the records of the Registrar's office.

Five University Scholarships, yielding a yearly income of seventy-five dollars, may be awarded the first week in May to graduates of colleges of recognized standing. Applications (with testimonials) should be sent to the Registrar not later than April 1.

FELLOWSHIPS.

In the year 1900 the Daughters of the American Revolution established a Fellowship in American History. At present the fellowship is honorary, but ultimately a stipend will be provided by an endowment.

Appointments may be made, for the year 1904-1905, to at least four teaching fellowships, with a stipend of $200 each. The holders of these fellowships will pursue studies in the Graduate Department, and will also give instruction, to the extent of five or six hours a week, in the departments to which they are appointed. They will be chosen for distinguished ability and promise.

THE JONES PRIZES.

In 1892 Frank J. Jones founded a prize of forty dollars, which is awarded to that member of the Senior class of

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the Academic Department who writes and pronounces an English oration in the best manner. The subjects are chosen by the Dean of the Faculty and the Chairman of the Board of Directors. A committee, consisting of three citizens of Cincinnati, is appointed by the Chairman of the Board of Directors to award the prize.

In 1901 Frank J. Jones founded a second prize of twenty dollars, which is awarded to that member of the Senior class of the Academic Department whose oration is adjudged by the committee to be next to the best. Both these prizes are now provided for by a permanent endowment.

THE PHI BETA KAPPA PRIZE.

In 1900 the local chapter of the Phi Beta Kappa Society established an annual prize of twenty-five dollars for the best English essay, written by a member of the Senior class of the Academic Department. The subjects are chosen by the members of the Faculty. A committee, consisting of three citizens of Cincinnati, is appointed by the President of the University to award the prize. The award is publicly made at the third Quarterly Convocation in June.

RELIGIOUS INFLUENCES IN THE UNIVERSITY.

The University is a public institution, and is in no sense denominational. Yet a course in the Bible forms part of the curriculum. The teaching of the Bible is expressly called for by the will of Charles McMicken, but with this proviso, that denominational theology shall not be taught. To get Charles McMicken's point of view, which is the

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University's point of view, it is necessary to recur to the religious situation at the time when he made his will. In his generation religious denominations were seeking to make clear wherein they differ from one another rather than wherein they agree. The founder of the University believed that beneath all denominations there are basal facts upon which they have erected, as superstructures, their respective theologies. These facts he believed are contained in the Old and New Testaments, and must become the foundation stones of any enduring civilization. These are the truths he desired that students should know who are to be the future citizens of the republic. And it is in this spirit that the Bible is taught in the University.

The lecturer on the Bible, in addition to his duty as instructor, stands ever ready to serve the students in the spirit of Charles McMicken's will. Every student is privileged to confer with him on religious matters. A stated hour of each week is reserved for such conferences. The lecturer also is expected to give the invocation at the public exercises of the University. For these two reasons he is called the University Chaplain.

The Y. M. C. A. and the Y. W. C. A. of the University are allowed the free use of one of the rooms in McMicken Hall in which to hold chapel services. These services are held daily, and are often conducted by ministers of the city. Every student is invited to attend, and is sure of a hearty welcome.

THE UNIVERSITY SETTLEMENT.

The Settlement conducted by the University of Cincinnati was organized in the year 1899. In May of that year

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a Settlement Association was formed, and in September a house, situated on Liberty and Plum Streets, in one of the most densely populated districts in Cincinnati, was opened, and at present is in full operation.

This house has become the social and educational headquarters of the neighborhood and is frequented by the people from the surrounding tenement houses. There are eight young men, residents of the house, under whose direction the work is carried on. They are assisted by volunteer workers from the University and city. The constituents of the Settlement are divided into clubs, and these clubs take advantage of the social and educational priviledges of the Settlement according as their ages and abilities justify. Some of the features of the Settlement are a gymnasium, circulating library, reading room, a savings bank, a lecture and entertainment course and four club rooms. It has besides a free kindergarten and sewing school.

The University Settlement furnishes an excellent experiment station for those who wish to do work in practical sociology.

This work is all done under the supervision of a Board of Directors, upon which serve representatives from the Faculty of the Academic Department, from the Alumnal Association, from the students of the University, and from business men of the city. Upon this board devolves the task of raising the subscriptions, by means of which the Settlement is supported.

STUDENT ORGANIZATIONS AND PUBLICATIONS.

The following societies and clubs have been established

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by the students of the Academic Department: The Forum, a debating society, composed entirely of young men; the Sophomore and Freshman Debating Society; the Young Women's Literary and Debating Society; the Chemists' Club; the French Club; the Comedy Club, and two Glee and Mandolin Clubs, one consisting of men, the other of women. In addition to these there is the University Club, composed of representatives from the fraternities and from the four classes, the object of which is the promotion of the general welfare.

An annual publication, *The Cincinnatian*, is edited and published by members of the Junior class. *The University Magazine* is published by the Young Women's Literary Society, and *The Weekly News* by the Forum.

THE PHILOLOGICAL SOCIETY.

The Philological Society consists of the professors, instructors and graduate students in the departments of English, German, Greek, Latin and Romance Languages. The meetings for the reading and discussion of papers are held in the evening, at the call of the secretary. The officers are: Professor J. E. Harry, President, and Professor Max Poll, Secretary.

THE TEACHERS' UNIVERSITY CLUB OF NATURAL HISTORY.

The Cincinnati Teachers' University Club of Natural History is the outgrowth of the biological work done in the University during the year 1900-1901 by teachers in the schools of Cincinnati and of adjoining towns. It is a permanent organization, and constitutes a valuable adjunct to

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the regular class instruction in the University for those who wish to familiarize themselves with work in the field, and to acquire that facility in presenting the facts of nature at first hand which is indispensable to the modern teacher of "nature-study." The club consists of active members only, and membership is restricted to persons who have done accredited work in Natural History in an approved institution of learning, or who have shown decided ability as teachers or investigators in some branch of Natural History.

Provision has been made whereby High School clubs and non-resident Natural History organizations may enter into affiliation with the University Club. Upon acceptance of their application, the society concerned is given a certificate of affiliation, and is recommended to appoint one or more delegates to attend the meetings of the Central club at the University. Such delegates may be admitted as bona fide members of the University Club of Natural History, provided the maximum limit of membership (fifty) is not thereby exceeded. A general meeting of all affiliated organizations is held at the University in June of each year.

THE CHEMICAL SOCIETY.

The Cincinnati Section of the American Chemical Society meets once a month, except in summer, in Hanna Hall, Burnet Woods Park. The officers for 1903 are: Dr. H. E. Newman, President, and Dr. J. F. Snell, Secretary. The papers read during 1902-1903 were:

October 8. Rolland H. French: An Examination of Podophyllin; G. A. Gray: Ana- and Metabromtetrahydroquinoline; Alfred M. Peter: A Chemical Method for Determining the Quality of Limestones.

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November 12. Thomas Evans: The Action of Methyl Magnesium Iodide upon Azoxybenzene.

December 10. L. L. Watters: On the Need of a More Careful Chemical Supervision of Municipal Supplies.

January 14. H. S. Fry: A Case of Quadrivalent Oxygen; H. E. Newman: Recent Progress towards the Absolute Zero.

February 11. Alfred Springer: Reviews.

March 11. J. W. Ellms: Unsoundness in Hydraulic Cements; Arthur Lowenstein: The Action of Magnesium Alkyl Halides upon Quinones.

April 8. Alfred Springer, Thomas Evans and W. H. Crane: Coffee in General—Ariosa in Particular.

May 13. L. L. Watters: Some Notes Concerning the Relation of Chemistry to Medicine; Stanley Benedict and J. F. Snell: A Method for the Detection of Chlorides, Bromides and Iodides; Thomas Evans: Reviews.

June 10. James Lewis Howe: Recent Advances in our Knowledge of the Chemistry of the Metals of the Platinum Group.

UNIVERSITY LECTURES AND ADDRESSES.

The following addresses were given in McMicken Hall at the Quarterly Convocations:

December 20, 1902. Recent Developments in Higher Education, by President Howard Ayers.

March 28, 1903. Recent Growth in the University, by President Howard Ayers.

June 20, 1903. The Dangers of Democracy, by J. H. Kirkland, LL. D., Chancellor of Vanderbilt University.

Other lectures given in McMicken Hall during 1903:

One lecture by President David Starr Jordan, Jan. 14, The Call of the Twentieth Century.

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Two lectures by George P. Baker, Assistant Professor of English, Harvard University, January 21 and 22, on Shakespeare's London.

McKinley Memorial Address by Wm. P. Rogers on January 29.

On Saturdays from April 4 to June 13, a course of lectures by Professor Merrick Whitcomb. The lectures were entitled: Elements of Medieval Society; Roman and Germanic Ideas of Law; Feudalism; The Medieval Church; Chivalry; Village and Manor; Towns and Gilds; Trade Routes and Products; Universities and Schools; Medieval Warfare.

Two lectures by Professor J. E. Harry, May 9 and 16, on Greek Life.

Five lectures by Professor J. E. Harry, November 14 to December 12, on the Ancient Greeks.

PHYSICAL CULTURE.

Six of the 186 credits required for a degree may be taken in Physical Culture, three hours a week in the Gymnasium for one term being reckoned as one credit.

This credit will be allowed during the Freshman and Sophomore years only.

A physical examination is made and physical measurements are taken of every student electing the course in physical culture. Measurement charts are given to each student and cards designating the kind of exercise and work each should take. Especial attention is given to the individual needs of the members of the class. Mrs. Chez has charge of the young women, and Director Chez of the young men.

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A special course in the gymnasium is offered the second term for the Freshmen class, and for others who desire to elect it. It will consist of the various gymnastic drills, such as calisthenics, Indian clubs, dumb-bells, wands and single sticks. Besides these drills, wrestling, fencing and work on the apparatus will be taken up in classes.

A course in gymnasium work will be given on Saturday mornings for teachers, if there is a sufficient number of applicants.

PHYSICAL EDUCATION.

The purpose of the Physical Department is the development or restoration of the physical well-being of the youth attending the University, in preparation for a vigorous, useful life.

A student's success in college depends upon the integrity of his mind, and this in turn is based upon his bodily health. There is no part of the mental training he receives that is independent of the support of the body.

Special attention is being given this year to the classes for men in Physical Culture, in charge of Director Chez. The Swedish system is mostly used in class-work. Drills are given with dumb-bells, Indian clubs, wands and poles. There is also instruction in fencing. Heavy gymnastics —which include German horse, parallel bars, horizontal and vaulting bars, tumbling, wrestling—are given to the advanced classes. Recreation in the form of games, such as basket ball, three-deep rooster fight, slipper, etc., are a part of each day's lesson. Play conduces to health, physical development and mental relaxation; therefore we introduce these games into our class-work.

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The director examines each student and prescribes exercises for his individual need. Special attention is given to those constitutionally weak.

An exhibition of class and apparatus work will be given each year.

ATHLETICS.

Wholesome athletics are essential to a full college life, and are encouraged under responsible supervision. Teams in foot ball, base ball, basket ball, track, and tennis are organized each season and trained by Director Chez.

THE ATHLETIC FIELD.

A much needed Athletic Field has recently been provided, and its equipment is nearly complete. When finished it will be one of the best college athletic fields in the country. One end will have a base-ball diamond, the other a foot-ball gridiron. The track will be one-fourth mile, built of cinder with deep foundation. A straightaway one hundred and twenty yards, sixteen feet wide, will extend in front of the new grand stand. The proximity of this field to the gymnasium makes it a particularly valuable addition to the athletic equipment of the University. Its location between three hill-tops, which form a natural amphitheater, affords opportunity for thousands of people to view the games.

EXPENSE OF LIVING.

Room and board may be had near the University at five dollars a week. The janitor will provide students with the addresses of boarding-houses.

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COURSES OF INSTRUCTION.

Provided by the Faculty of the Academic and Graduate Departments.

As used in the following pages the letter *a* means *first term; b, second term; c, third term.* When these letters are not used, the course runs through the year.

The courses offered are, in most cases, classified as follows:

1. For undergraduates.
2. For undergraduates and graduates.
3. Primarily for graduates.
4. For graduates only.
5. For teachers.

When not otherwise stated, courses are given every year. Some courses are given regularly in alternate years, as indicated, others at longer intervals.

ANTHROPOLOGY AND ETHNOLOGY.

A knowledge of the origin and the development of man in his physical, intellectual and moral relations is of great importance.

The courses offered in Ethnology and Anthropology are designed to enable the student to acquire not only the leading facts concerning the history of the progress of the human race, but to furnish him with a sound foundation for good citizenship and for a rational study of sociology.

Sociology as a science must rest upon the study of the facts of man's organization and gradual evolution.

The hours for these courses to be arranged:

1. Anthropology.—A survey of the field of general Anthropology. *Tu., Th,. S., 9:30.* Professor AYERS.
2. Physical Anthropology and Anthropological Laboratory.—Three times a week. Professor AYERS.

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3. Ethnology.—A study of the *genus* Homo, its palaeontological record and geographical distribution. Three times a week. PROFESSOR AYERS.

4. American Archaeology.—Three times a week. Professor AYERS.

Courses 2, 3 and 4 must be preceeded by Course 1. Courses 1, 3 and 4 will continue through one term each. Course 2 is an advanced course and may be taken during three successive terms. These courses will be given at the option of the instructor.

ASTRONOMY.

The Observatory, situated on Mt. Lookout, is well equipped for carrying on astronomical work. In the center rises the massive masonry pier, which supports the great equatorial of eleven inches aperture and sixteen feet focal length. It is protected by an iron dome, which can be revolved with great rapidity and ease. The shutter is operated by an endless rope, the opening in the dome being four feet in width and extending from the horizon to the zenith.

In the western wing is placed the meridian circle, by Fauth & Co. This instrument has an aperture of five inches and a focal length of seventy inches, and is supplied with all modern improvements. The circle is divided to five minutes of arc, and read by four microscopes to single seconds. The sidereal clock, by Molyneux, is also in this wing. The eastern wing is used as a library and computing room. The Observatory possesses also a four-inch equatorial, by Clark, a sidereal chronometer and chronograph, by Bond, and a mean-time clock, by Ritchie. The library contains about

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3,000 volumes, including most of the star catalogues, and many valuable works of reference.

The scientific activity of the Observatory has been uninterrupted since the removal, in 1873, to the present site. During this period fourteen numbers of the regular publication have been issued, besides many memoirs, which have appeared in the astronomical journals. Special prominence is given to stellar astronomy, many important discoveries having been made in this field. The Observatory is also co-operating at the present time with the International Geodetic Association in the determination of the variation of latitude.

1 *b*. General Astronomy.—Lectures and recitations. Text-book: Young's Manual of Astronomy. *M., W., F., 10:30-11:30.* Professor PORTER.

A knowledge of geometry and trigonometry is required for this course.

2 *c*. Descriptive Astronomy.—Lectures and class work. No mathematical training is required beyond a geometrical conception of the sphere and its circles. The object of the course is to give a comprehensive view of astronomy in its historic and practical relations, as well as a general résumé of our knowledge concerning the heavenly bodies. *M., F., 10:30-11:30.* Professor PORTER.

3 *a*. Geodesy.—Geodetic operation; base line measurements; figure of the earth, and adjustments of triangulation systems. *W., 2-4.* DR. STEWART.

A knowledge of the method of least squares is required for this course.

4 *b. c*. Spherical and Practical Astronomy.—The different systems of co-ordinates used in astronomy, with

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their transformations; the changes of the fundamental planes of reference; the theory of interpolation; the determination of time, latitude and azimuth, with the use of the Nautical Almanac. *W.*, *2-4*. DR. STEWART.

For Courses 3 and 4 two hours' credit will be given, and one hour's credit additional for computation in connection with them.

FOR UNDERGRADUATES AND GRADUATES.

5 *a*. *Celestial Mechanics.*—Investigation of the fundamental equations of motion and of the formulae for determining the positions of bodies revolving about the sun.

6 *b*. Computation of a parabolic orbit from three observations.

7 *c*. Computation of an elliptical orbit and perturbations. Text-book: Watson's Theoretical Astronomy.

These courses are consecutive, once a week throughout the year. *Hour to be arranged.* Professor PORTER.

BIBLE.

1. *Old Testament.* *a*. The Hexateuch. *b*. The Prophets. *c*. Wisdom Literature. *M.*, 10:30-11:30. MR. MELISH.

2. *New Testament.* *a*. Epistles. *b*. Acts, Revelations. *c*. Gospels. *M.*, 10:30-11:30. MR. MELISH.

Course 1 will be given in 1904-5.
Course 2 is given in 1603-4.

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BIOLOGY.

The courses in Biology aim to meet the needs of three classes of students: (1) those who desire biological training as a matter of general education; (2) prospective medical students; (3) those who seek preparation for a scientific career.

In the elementary courses the object is not primarily to inform, but to educate. Not alone knowledge of facts, but the ability to turn facts into general ideas is the end to be attained.

In the advanced courses training in physics and chemistry is expected, and also ability to read French and German. Special facilities are afforded students pursuing courses of research.

LABORATORIES.

The Biological Department occupies the east half of the basement and the second and third floors of Cunningham Hall. In the size and arrangement of the various laboratories and in general equipment the department is unsurpassed by any in the West. The fixtures have been carefully designed to meet all of the requirements of modern biological work. The laboratories are unusually well provided with optical apparatus and the various instruments of biological technique, such as microtomes, dissecting and injecting apparatus, sterilizers, incubators and camera lucidas. Besides these, a liberal supply of more special appliances, including filar micrometers, apochromatic lenses, Bruecke lenses, mechanical stages, a large auto-clave, centrifuge and cameras for field and for photomicrographic work are at the service of the investigator. Special laboratories are provided for students taking advanced courses and courses of research.

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The anatomical laboratory in the basement is provided with slate-top dissecting tables, chemical desks, a stone pier for photomicrography, a tank for air pressure injection and an ice chamber for the storage of animals which are being dissected. Adjoining this laboratory are the museum and two small laboratories for research. A recent valuable addition to the museum is the Balke collection of eggs, birds, insects and minerals, the gift of Mr. R. F. Balke, of this city.

On the second floor are the lecture-room, the departmental library, the general biological laboratory, together with its adjoining preparation room, dark rooms, and laboratories for students taking advanced courses and courses of research. The lecture-room can be darkened for the use of the stereopticon, and is provided with modern charts and models for purposes of demonstration.

The third floor, under a glass roof, is arranged as a vivarium, and is well adapted for research in experimental morphology and physiology. A constant temperature can be maintained by means of special heating apparatus. The room is provided with a large land-and-water cage for amphibia, and a number of large plate-glass aquaria for marine and fresh-water organisms. Ample provision is made, moreover, for breeding and keeping reptiles, birds and mammals, and also for the cultivation of various kinds of plants.

The student is advised to proceed in the following order in the election of courses:

First Year.—Course 1 or Courses 1*a* and 2.

Second Year.—Course 3, Courses 3 and 6, or Courses 6 and 2.

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Third Year.—Course 5, Courses 4 and 2, Courses 3 and 5, or Courses 4 and 6 or 7.

Fourth Year.—Course 10 or 11 and Research. Also any special course such as 6 or 7.

FOR UNDERGRADUATES.

1 *a.* General Biology.—Lectures dealing with topics of a general biological nature, supplemented by a careful study of representative animals and plants, in the field and in the laboratory. The course is intended as a thorough foundation for further work in biology. *M., W., F., 9:30-10:30*; *M., W., 1:30-4:00.* MR. BENEDICT and MISS SPELLMIRE.

b,c. Elementary Zoology.—A comparative study of the various groups of animals, including life-history, distribution, habits, adult anatomy and classification. Careful dissections, drawings and comparisons are required in the laboratory. *M., W., F., 9:30-10:30*; *M., W., 1:30-4:00.* Mr. BENEDICT and MISS SPELLMIRE.

2 *b. c.* Elementary Botany.—Particular attention will be given to the subject of structural botany as a foundation for more advanced work. Ecology, physiology and taxonomy will be considered briefly. *M., W., F., 8:30-9:30; T., Th., 1:30-4:00.* Mr. BENEDICT and MISS SPELLMIRE.

Course 3 is open to students who have passed in Course 1 *a.*

3 *a. b. c.* Vertebrate Zoology and Comparative Anatomy.—Lectures on the classification, habits and distribution of vertebrates, to be accompanied by

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by a study of the living forms in the field and at the Zoological Garden. The anatomy of the vertebrates is studied in a comparative way with special reference to the evolution of the organs of the higher members of this group from those of the lower members. The laboratory work consists in the careful dissection of selected forms. The human skeleton is also studied and the principal bones modeled in clay. *M.*, *W.*, *F.*, 10:30-11:30; *Tu.*, *Th.*, 1:30-4:00. Professor GUYER.

Course 3 is open to students who have passed in Course 1 *b. c.*

4 *a.* Physiology; Laboratory.—The aim of this course is to familiarize the student with the fundamental principles of physiology and to prepare him thoroughly for the subjects which will be discussed in lectures during the succeeding terms. *M.*, *W.*, *F.*, 1:00-4:00. Professor GUYER.

4 *b. c.* Physiology; Lectures.—A discussion of the fundamental principles of physiology and their application to the human body. The lectures are based upon the results derived from the laboratory work of the preceding term. *M.*, *W.*, *F.*, 1:30-3:30. Professor GUYER.

Course 4 is open to students who have passed in Courses 1 and 3 and in Chemistry Course 4 *b. c.* must be preceded by Course 4 *a.*

5 *a, b.* Microscopical Methods and Histology.—The course embraces general and special methods of preparing material for histological or embryological study, and includes detailed instruction in the manipulation of

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the microscope and its various accessories. Methods of injection, staining and mounting for advanced morphological work are also included. The last half of the first term is devoted to the minute structure of elementary tissues, the second term to the study of organs. *M.*, *W.*, *F.*, 11:30-12:30. *M.*, *W.*, *F.*, 1:30-4:00. Professor GUYER.

Course 5 is open to students who have passed in Course 3.

c. Embryology of Vertebrates.—Lectures, demontrations and laboratory work, dealing with the history of the germ cells, cleavage of the ovum, embryo formation and the development of the principal organs of the body. The laboratory work is based largely on the frog, chick and pig. *M.*, *W.*, *F.*, 11:30-12:30; *M.*, *W.*, *F.*, 1:30-4:00. Professor GUYER.

Course 5 *c* is open to students who have passed in Course 5 *a, b.*

6 *a, c.* Field Zoology.—Excursions are made to study the habits of animals, their homes, their dependence one upon another, and their relations to the surrounding physical conditions. Practical directions for collecting, identifying and preserving specimens will form a part of the work. *2 periods. Hours to be arranged.*

7 *c.* Zoological Technique.—Open to students who have passed in Course 5 *a. b. 2 periods. Hours to be arranged.* Mr. BENEDICT.

PRIMARILY FOR GRADUATES.

10. Anatomy and Physiology of the Cell.—Lectures, demonstrations and laboratory work. The course deals

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with the latest phases of cellular biology and with the methods of work. The aspects of cell life presented in the development of an organism and the various problems centering in the cell as the mechanism of hereditary transmission will be especially considered. *One lecture and two laboratory periods a week. Hours to be arranged.* Professor GUYER.

Courses 10 and 11 are given in alternate years. Course 10 is open to students who have passed in Course 5.

11. Physiological Morphology.—Lectures and laboratory work. The work consists in discussing and in experimenting in the various tropisms, regeneration, grafting and kindred problems. *One lecture and two laboratory periods a week. Hours to be arranged.*

Courses 11 and 10 are given in alternate years. Course 11 is open to students who have passed in Course 5. It is omitted in 1903-1904.

12. Research.—Vertebrate Morphology. *Hours to be arranged.* Professor AYERS.

13. Research.—Cytology, Embryology or Morphology. *Hours to be arranged.* Professor GUYER.

23. Seminary.—For instructors and advanced students. The members will meet once a week, to review important current literature, to hear visiting biologists, or to present the results of their research. A reading knowledge of French or German is required. *Th., 4:30-5:30.* Professor GUYER.

FOR TEACHERS.

The work is planned largely for the benefit of teachers who wish to familiarize themselves with modern laboratory

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methods and with methods of collection and observation in the field. A laboratory fee of five dollars is charged to cover the expense of material used.

A valuable adjunct to the regular courses for teachers is the Cincinnati Teachers' University Club of Natural History, which is an outgrowth of the work in nature-study in the University.

21. Elementary Zoology.—A course for beginners. *S., 8:30-12:30.*

10. Advanced Zoology.—A course intended especially for

22. Advanced Zoology or Botany.—A course intended especially for those teachers who have completed the University courses in Elementary Zoology or Elementary Botany. Each student will be assisted in choosing a special problem for work during the year. In case the results are an actual contribution to science, arrangements will be made for their publication. *S., 8:30-12:30.* Mr. BENEDICT

23. University Club of Natural History.—The object of the club is to study the Natural History of Cincinnati and vicinity; to establish a museum, and to review current literature on Natural History. *Second and Fourth Tuesdays.* WILLIAM OSBORN, *President.*

CHEMISTRY.

The courses in Chemistry are arranged to cover a period of four years of three terms each. Students should be familiar with the elementary principles of Inorganic Chemistry and the simpler forms of laboratory manipulation before entering upon the first course.

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LABORATORIES.

The Department of Chemistry occupies Hanna Hall Annex and the first floor of Hanna Hall. The main laboratory is devoted to experimental chemistry, qualitative analysis and elementary quantitative analysis. Several small laboratories are provided for special work. A new lecture-room, classroom and laboratories for organic, physical and technical chemistry have been equipped, to meet the increased demand for instruction in these branches.

The laboratories are well provided with the requisite appliances and facilities for the easy and rapid execution of analytical and experimental work. Students are supplied with the rarer chemicals and all needed apparatus at manufacturers' prices, and the value of the apparatus, returned in good condition, is refunded at the expiration of the course. The laboratories are open the whole of every working day, and their privileges are extended to special and graduate students.

The library of the department is open to students during the day. It contains 1,500 volumes, and includes complete sets of all the leading chemical journals and works of reference in English, French, German and Italian. The current chemical periodicals are kept on file.

FOR UNDERGRADUATES.

1 *a, b.* General Inorganic Chemistry.—Descriptive and experimental lectures and recitations. The course includes the more important experiments in connection with the study of the non-metals and metals. Ample use is made of charts and specimens. *Tu., Th., S., 10:30-11:30.* Professor EVANS.

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2 *a*. General Inorganic Chemistry, Laboratory.—A series of experiments illustrating the general laws of chemistry and the properties of the non-metallic elements and their compounds. Two laboratory exercises a week. *M.*, *W.*, 1:30-4:30 or *Tu.*, *Th.*, 1:30-4:30. Dr. SNELL and Mr. FRY.

3 *b, c*. Qualitative Analysis.—Lectures and recitations. One lecture a week during the second term, and two during the third term. *T.*, *Th.*, *9:30-10:30*. Dr. SNELL.

Course 3 is open to students who are taking, or have passed in, Courses 1 and 2.

4 *b, c*. Qualitative Analysis, Laboratory.—This course must accompany Course 3, and embraces a thorough training in the qualitative examination of salts, minerals and chemical products. Two exercises a week. *M., W., 1:30-4:30,* or *T., Th., 1:30-4:30*. Dr. SNELL and Mr. FRY.

5 *c*. Theoretical Chemistry.—Lectures. An elementary course, embracing brief discussions of the phase rule, reaction velocity, the theory of solutions and thermochemistry. The lectures are illustrated by experiments. *W., 11:30-12:30*. Dr. SNELL.

Though intended primarily for students of the College of Engineering, this course is open to all students who have passed in Courses 1 and 2.

6. Quantitative Analysis, Laboratory.—An elementary course in gravimetric and volumetric analysis of chemicals, ores, minerals, alloys, etc., and in the calculations of Analytical Chemistry. A weekly con-

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ference is held at which quantitative methods are discussed. *M., W., F., 1:30-4:30.* Mr. FRY.

Course 6 is open to students who have passed in Courses 1, 2, 3, 4, and who have passed in or are taking Physics, Course 1.

7 a, b. Inorganic Chemistry.—Lectures. This course is intended to supplement Course 1. The less familiar elements and compounds and the more recent theories of Inorganic Chemistry are discussed. *M., W., F., 9:30-10:30.* Dr. SNELL.

Course 7 is open to students who have passed in Courses 1, 2, 3, and 4.

7 c. Organic Chemistry.—Descriptive lectures in elementary Organic Chemistry, especially adapted to students intending to take up Physical or Technical Chemistry. *M., W., F., 9:30-10:30.* Professor EVANS.

Course 7 is open to students who have passed in Courses 1, 2, 3 and 4.

8 *a. b.* Inorganic Preparations.—Preparation of specimens of the less common inorganic compounds. *M., W., F.*, 1:30-4:30. Dr. SNELL.

Course 8 is open to students who are taking or have passed in Course 7.

8 c. Organic Reactions and Preparations.—Laboratory practice in the determination of characteristic organic radicals, and the preparation of simple organic compounds. *M., W., F., 1:30-4:30.* Professor EVANS.

Course 8 is open to students who are taking, or have passed in, Course 7.

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9 *a, b.* Physical Chemistry.—Lectures and recitations. A general introductory course in Physical Chemistry. It is recommended that this course be accompanied by Course 10 *a, b. Tu., Th., S., 10:30-11:30.* Dr. SNELL.

Course 9 is open to students who have passed in Courses 6 and 7 *c* (or 13); in Physics, Courses 1 and 2; in French, Courses 1 and 2; in German, Courses 1 and 2; and in Mathematics, Course 5.

9 *c.* Electrochemistry.—Lectures. The principles, history and applications of Electrochemistry. It is recommended that this course be accompanied by Course 10 *c. Tu., Th., S., 10:30-11:30.* Dr. SNELL.

Course 9 *c* is open to students who have passed in Courses 6 and 7 *c* (or 13); in Physics, Courses 1 and 2; and in Mathematics, Course 5.

10 *a, b.* Physical Chemistry, Laboratory.—This course comprises a series of exercises which illustrate the general methods of Physical Chemistry, and aims to impress upon the student the limits of accuracy which should be obtained in experimental work. *Tu., Th., 1:30-4:00.* Dr. SNELL.

Course 10 is intended to accompany Course 9, and is open to students who are taking, or have taken, that course.

10 *c.* Electrochemistry, Laboratory.—Electrochemical measurements, oxidations and reductions, and electrolytic synthesis of organic and inorganic compounds. *Tu., Th., 1:30-4:30.* Dr. SNELL.

Course 10 *c* is intended to accompany Course 9 *c* and is open to students who are taking, or have taken, that course. Courses 9 and 10 give credit as minors in chemistry for graduate students.

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11. Technical Chemistry.—This course consists of two lectures and one class exercise a week, and treats of the more important chemical industries, the mechanical appliances used therein, and of fuels, water and metallurgy. The lectures are fully illustrated with charts and specimens. *M., W., F., 10:30-11:30.* Professor EVANS.

Course 11 is open to students who have passed in Courses 1, 2, 3, 4, and 6, and to students of the College of Engineering who have passed in Courses 1, 2, 3, and 4.

This course gives credit as a minor in chemistry for graduate students.

12. Technical Chemistry, Laboratory.—*a.* The analysis of various chemical and metallurgical raw materials and products, water and fuels. A special course for engineers will be given during this term. *b.* The analysis of fertilizers, foods, soaps, rare or complex minerals, etc. *c.* The preparation of pure chemicals from raw materials, and such other manufacturing operations as can be simulated on a small scale. *M., W., F., 1:30-4:30.* Professor EVANS.

Course 12 is open to students who have passed in, or are taking, Course 11.

13. Advanced Organic Chemistry.—Lectures, embracing a systematic study of the principles and practice of Organic Chemistry, and treating of the constitution, properties and mode of formation of the more important members of each class of organic compounds. *Tu., Th., S., 9:30-10:30.* Professor EVANS.

Course 13 is open to students who have passed in Course 4; in French, Courses 1 and 2; in German, Courses 1 and 2. Students are advised to take Course 7 as a preliminary to

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Course 13. This course gives credit as a minor in chemistry for graduate students.

14 *a, b.* Organic Chemistry, Laboratory.—Practice in ultimate analysis, molecular weight determinations and the preparation of a number of typical organic compounds. *M., W., Th., F., 1:30-4:30.* Professor EVANS.

Course 14 is open to students who have passed in Course 6; in French, Courses 1 and 2; in German, Courses 1 and 2. This course gives credit as a minor in chemistry for graduate students.

15 *b.* Assaying.—Laboratory practice, with introductory lectures upon the fire assay of gold, silver, lead, etc. *W., 1:30-4:30.* Professor EVANS.

Course 15 is open to students who have passed in Course 6 *a,* and to Engineering students who have passed in Course 12 *a.* Course 15 is given in 1904-1905; it is omitted in 1903-1904.

16 *b.* Physiological Chemistry.—Laboratory practice, with introductory lectures upon physiologically important bodies, and practice in their identification and quantitative determination. This course may be supplemented by additional work during the third term. *M., W., 1:30-4:30.* Professor EVANS.

Course 16 is open to students who have passed in Course 6 *a,* and is especially intended for students of Biology, and for those who expect to study medicine. Course 16 is omitted in 1904-1905; it is givin in 1903-1904.

17. Thesis, Laboratory.—Six laboratory periods a week. This course is designed for senior students who are required to prepare a thesis for graduation. *Hours to be arranged with the instructor.* Professor EVANS.

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PRIMARILY FOR GRADUATES.

23. Research in Organic Chemistry.—Eight or more laboratory periods a week, with collateral reading and practice in bibliography. The nature of the research will be determined by the special training and the inclination of the student. Professor EVANS.

24. Research in Technical Chemistry.—Eight or more laboratory periods a week, devoted to the solution of some problem in industrial chemistry, with collateral reading and practice in bibliography. The nature of the research will depend upon the special training and the inclination of the student. Professor EVANS.

25. Research in Physical Chemistry.—This course will consist of laboratory work and a systematic course of reading along the special line of the investigation. Ample provision will be made for apparatus necessary to facilitate the work. *Hours to be arranged with the instructor.* Dr. SNELL.

26. Research in Inorganic Chemistry.—This course is intended for students who are desirous of investigating some particular problem in inorganic chemistry. It will comprise laboratory work and collateral reading. *Hours to be arranged with the instructor.* Dr. SNELL.

FOR TEACHERS.

27. General Inorganic Chemistry.—Lectures illustrated by experiments performed with simple apparatus, which can be duplicated in secondary schools. *S., 8:30-9:30.* Professor EVANS.

28. General Inorganic Chemistry, Laboratory.—A care-

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fully selected series of experiments illustrative of every department of Inorganic Chemistry. Quizzes are held at frequent intervals. *S., 9:30-12:30.* Professor EVANS.

Courses 27 and 28 are omitted in 1903-1904.

29. Theoretical Chemistry.—Lectures of an elementary character on the general laws of chemistry, embracing a study of the phase rule, the law of mass action, the velocity of reaction, catalysis, the ionic theory, thermo-chemistry, etc. The lectures are illustrated by experiments. *S.*, 11:30-12:30. Dr. SNELL.

Course 29 is open to students who have passed in courses 1 and 2 or their equivalent.

ECONOMICS.

(The Sinton Professorship.)

FOR UNDERGRADUATES.

1*a*. Theory of Economics.—A course in the fundamental principles of economics. Lectures, with a comparative study of the views of representative authors. *M., W., F.*, 10:30-11:30. Professor HICKS.

Course 1 is open to students who have completed at least one year of University work.

2*b*. Economic History of England.—A study of the economic development of England, including the guild and manorial systems and the transition through the mercantile system to modern conditions. *M., W., F.*, 10:30-11:30. Professor HICKS.

Course 2 is open to students who have passed in Course 1.

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3*c*. Economic History of the United States.—The economic development of the United States, from 1789 to the present day, with special reference to the origin and history of the principal economic problems. *M.*, *W.*, *F.*, 10:30-11:30 Professor HICKS.

Course 3 is open to students who have passed in Courses 1 and 2.

FOR UNDERGRADUATES AND GRADUATES.

4*a*. Theory of Finance.—The fundamental principles of public finance, with especial reference to taxation. *Tu.*, *Th.*, 10:30-11:30. Professor HICKS.

Course 4 is open to students who have passed in Course 1.

5*b*. History of Public Finance.—After a brief survey of the general development of financial systems, the history of public finance in the United States will be taken up and a comparison made with the revenue systems of the leading European nations. *Tu.*, *Th.*, 10:30-11:30. Professor HICKS.

Course 5 is open to students who have passed in Course 4.

6*c*. State and Local Finance.—The financial systems of the American commonwealths, with special reference to the history of public finance in Ohio. *Tu.*, *Th.*, 10:30-11:30. Professor HICKS.

Course 6 is open to students who have passed in Course 4.

7. Economic Problems.—*a*. Relation of the State to industrial action. *b*. Transportation. *c*. Trusts. *M.*, *W.*, *F.*, 1:30-2:30. Professor HICKS.

Course 7 is open to students who have passed in Courses 1, 2 and 3. It is omitted in 1904-1905; given in 1905-1906.

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8. Economic Problems.—*a.* Labor. *b.* Money. c. Tariff. *M.*, *W.*, *F.*, 1:30-2:30. Professor HICKS.

Course 8 is open to students who have passed in Courses 1, 2 and 3. It is given in 1904-1905; omitted in 1905-1906.

9. Foreign Commerce.—History and present status of international trade, with special reference to tariff policies and the development of the trade relations of the United States with foreign countries. *Tu.*, *Th.*, 1:30-2:30. Professor HICKS.

Course 9 is open to students who have passed in Courses 1, 2 and 3. It is omitted in 1904-1905; given in 1905-1906.

10. Modern Economic Institutions. — A comparative study of the economic conditions in modern nations. *Tu.*, *Th.*, 1:30-2:30. Professor HICKS.

Course 10 is open to students who have passed in Courses 1, 2 and 3. It is given in 1904-1905; omitted in 1905-1906.

PRIMARILY FOR GRADUATES.

13. Method.—*a.* Statistics. *b.* Sources. *c.* Criticism. *M.*, 2:30-4:30. Professor HICKS.

14. Seminary.—This course is intended to afford opportunity for the detailed study of special problems in economics and finance. *Tu., 2:30-4:30.* Professor HICKS.

Students who elect Course 14 should also elect Course 13, or should have passed in that course.

ENGLISH.

FOR UNDERGRADUATES.

1. Rhetoric and English Composition.—*a.* Fundamental Principles. *b.* Description. *c.* Narration. Lectures,

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recitations, themes, impromptu paragraph writing and other written exercises, collateral reading, conferences. *Sec. I,* (for Engineers) *M., W., 8:30-9:30*; *Sec. II, Tu., Th., 8:30-9:30*; *Sec. III, Tu., Th., 2:30-3:30*; *Sec. IV, Tu., Th., 11:30-12:30*; *Sec. V, M., W., 11:30-12:30.* Assistant Professor MILLER, Mr. MURRAY and Mr. KINSELLA.

2. English Composition.—*a.* Exposition. *b.* Argumentation. *c.* Description and Narration, Advanced Course (the short story). Lectures, themes, impromptu paragraph writing and other written exercises, rhetorical analysis, collateral reading, criticism of original composition. *Sec. I, Tu., Th., 10:30-11:30*; *Sec. II, Tu., Th., 1:30-2:30.* Assistant Professor MILLER and Mr. MURRAY.

Course 2 is open to students who have passed in Course 1.

13 *a, b.* Exposition and Argumentation, Advanced Course. —A preparation for effective public speaking. Lectures; practice in writing, in speaking, and in debate; collateral reading. *Tu., Th., 10:30-11:30.* Assistant Professor MILLER

Course 13 is open to students who have passed creditably in Courses 1 and 2 *a, b.* Seniors who intend to enter the contest for the Jones' prizes should take this course.

3. Modern English Poetry.—*a.* From Tottel's Miscellany to the publication of Milton's early poems (1557-1645). *b.* From the publication of Milton's early poems to the publication of the Lyrical Ballads (1645-1798). *c.* From the publication of the Lyrical Ballads to the death of Tennyson (1798-1892). This course affords a survey of the history and develop-

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ment of modern English poetry. Attention is especially directed to the more important metres and stanzaic forms. Instruction is given by lectures and by the reading of poems. Frequent reports of collateral reading are required. *Tu., Th., 9:30-10:30.* Professor BROWN.

4. English Prose.—*a.* Of the nineteenth century. *b.* Of the eighteenth century. *c.* Of the sixteenth and seventeenth centuries. A study of selections from the works of the chief prose writers of the last four centuries. Essays, discussions, reports of collateral reading. *M., W., 1:30-2:30.* Assistant Professor MILLER.

Course 4 is open to students who have passed in Course 1 and are taking, or have taken, Course 2.

FOR UNDERGRADUATES AND GRADUATES.

5 *a, b.* Shakspere.—Romeo and Juliet, Richard II., A Midsummer Night's Dream, Hamlet, King Lear, The Tempest. Private reading of the remaining plays. Lectures, reports, discussions, analysis of plots and characters. *M., W., F., 9:30-10:30.* Professor BROWN.

Course 5 is open to students who have passed in Courses 1 and 3.

15 *c.* Shakspere's Predecessors.—Lyly, Kyd, Marlowe, Peele, Greene, Lodge, Nashe. The development of comedy, tragedy and chronicle-history before 1590. Lectures, reports, discussions, analysis of plots, rapid reading of plays. *M., W., F., 9:30-10:30.* Professor BROWN.

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Course 15 is open to students who have passed in Courses 1 and 3.

14. *a.* The History of the English Drama to 1570.—Miracle-plays, moralities, interludes, the beginnings of the regular drama. *b.* The End of the Old Drama.—Ben Jonson and the later Elizabethans; Beaumont and Fletcher, Massinger and others to the closing of the theatres. Lectures, reports, discussions, rapid reading of plays. *M., W.,* 1:30-2:30. Mr. MURRAY.

Course 14 is open to students who have passed in Courses 1 and 3.

19 *c.* The English and Scottish Popular Ballads.—A study of the characteristics of folk-poetry. The origin and development of the popular ballad. Lectures, reading and discussion of selected ballads, collateral reading and comparative study of ballads, frequent reports, essays. *M., W., F., 2:30-3:30.* Assistant Professor MILLER.

Course 19 is open to students who have passed in Courses 1 and 3.

6. Victorian Poets.—*a.* Tennyson. *b.* Browning. *c.* Arnold and Rossetti. A study of selected poems and dramas, together with as wide reading as possible in the works of these poets and of contemporary poets. Seminary methods are employed. Reports, interpretations, critical essays and discussions. *W., F., 10:30-11:30.* Professor BROWN.

Course 6 is open to undergraduates who have passed in Courses 1, 2, 3 and 4 or 5, and have shown aptitude for

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literary study. Graduates must show satisfactory preparation.

Course 6 is given in 1903-1904; it will be omitted in 1904-1905.

16. Early Nineteenth Century Poets.—*a.* Wordsworth. *b.* Byron. *c.* Shelley and Keats. *W., F., 10:30-11:30.* Professor BROWN.

Course 16 is similar to Course 6 in scope and method, and is open to students on the same conditions. It is omitted in 1903-1904; to be given in 1904-1905.

17*c.* Literary Criticism.—An examination of the theories and opinions concerning poetry and the drama of some of the greater critics from Dryden to Matthew Arnold. Discussions, reports, essays, collateral reading. *Tu., Th., 8:30-9:30.* Professor BROWN.

The requirements for admission are the same as for Course 6.

7*a, b.* Old English.—An elementary course in Old English (Bright's Anglo-Saxon Reader). Special attention is given to the development of the language. *M., W., F., 8:30-9:30.* Professor BROWN.

8*c.* Old English Poetry.—Béowulf. Collateral reading in the history of Old English poetry. *M., W., F., 8:30-9:30.* Professor BROWN.

Course 8 is open to students who have passed in Course 7.

9*a, b.* Middle English Poetry.—A study of Chaucer's Prologue to the Canterbury Tales, and of two or more of the Tales, together with selections from earlier Middle English poetry (1150-1350). Collateral reading in the history of Middle English literature and in Chaucer. *Tu., Th., 8:30-9:30.* Professor BROWN.

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Course 9 is open to students who have passed in Course 7. Students who choose English as a major subject must take Courses 7, 8 and 9.

FOR GRADUATES ONLY.

20. Graduate Study and Research.—Credit according to work done. *Hours to be arranged.* Professor BROWN.

FOR TEACHERS.

11. English Composition and Rhetoric.—A study of the principles of composition, the elements and qualities of style and the forms of discourse, with the object of producing effective composition—descriptive, narrative, expository, argumentative. Lectures, recitations, reports; writing of impromptu themes, long themes, summaries. *Th., 4:30-5:30.* Assistant Professor MILLER.

12. English Literature.—*a.* Poetry of the Eighteenth Century. *b.* Poetry of the Nineteenth Century. *c.* Prose of the Nineteenth Century. Lectures, collateral reading, reports. *S., 9:30-10:30.* Mr. MURRAY.

Courses 11 and 12 are open to teachers only.

GERMAN.

FOR UNDERGRADUATES.

1. Elementary German.*—Grammar, translation from German into English, and elementary exercises in translating into German. *Sec. I, Tu., Th., S., 8:30-9:30; Sec. II, M., W., F., 3:30-4:30.* Mr. BAUR and Miss METZ.

* NOTE.—For anticipatory examinations in German, see page 64.

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2. German Prose and Poetry.—Reading at sight, grammar, composition and dictation. *Sec. I, M., W., F., 9:30-10:30*; *Sec. II, M., W., F., 10:30-11:30*. Professor POLL and Mr. BAUR.

Course 2 is open to students who have passed in Course 1.

3. German Composition.—German grammar and practice in writing German. *T., Th., 9:30-10:30*. Mr. BAUR.

Course 3 is open to students who have passed in Course 1. Courses 2 and 3 may be advantageously taken together.

4. Introduction to German Literature of the Eighteenth Century.—*a.* Lessing's Emilia Galotti; Schiller's Jungfrau von Orleans and Maria Stuart. *b.* Goethe's Iphigenie and Egmont. *c.* Goethe's Tasso and Götz von Berlichingen. Translation, reading at sight, composition. This course is conducted mainly in German. *Sec. I, M., W., F., 8:30-9:30; Sec. II, M., W., F., 2:30-3:30.* Professor POLL and Mr. BAUR.

Course 4 is open to students who have passed in Course 2.

FOR UNDERGRADUATES AND GRADUATES.

5. History of German Literature to the Nineteenth Century, with special study of the Classic Periods of the Twelfth and Eighteenth Centuries.—*a.* From the earliest times to the Reformation. *b.* From the Reformation to Lessing. *c.* From Lessing to Goethe's death. Among other works the following will be read in 1903-1904: the Nibelungenlied (translated into modern German by R. Woerner); Gottfried von Strassburg's Tristan (translated into modern German by W. Hertz); Walther von der Vo-

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gelweide's Gedichte (translated into modern German by K. Pannier); Lessing's Nathan; Schiller's Wallenstein and Braut von Messina, and Goethe's Faust. Lectures in German, collateral reading. *M.*, *W.*, *F.*, 10:30-11:30. Professor POLL.

Course 5 is open to students who have passed in Course 4.

6. German Literature of the Nineteenth Century.—*a.* The Romantic School. *b.* The Novel. *c.* The Drama and Lyrics. Lectures, collateral reading and themes by the class. *M., W., F., 2:30-3:30.* Mr. BAUR.

Course 6 is open to students who have passed in Course 4.

PRIMARILY FOR GRADUATES.

11 *c.* German Literature from the Reformation to the Classic Period of the Eighteenth Century.—Lectures in German and collateral reading. *Tu., Th., 10:30-11:30.* Professor POLL.

Course 11 is open to students who have passed in Course 5. It is given in 1903-1904; omitted in 1904-1905.

7. Middle High-German.—*a.* Wright's Middle High-German Primer. *b, c.* Das Nibelungenlied. Translation into modern German and lectures in German. *M., W., 3:30-4:30.* Professor POLL.

Course 7 is open to students who have passed in Course 5 or 6.

8 *a, b.* Old High-German. — Braune's Althochdeutsche Grammatik, and the same author's Althochdeutsches Lesebuch are used as text-books. *a.* Prose. *b.* Poetry. Translation into modern German and lectures in German. *Tu., Th., 10:30-11:30.* Professor POLL.

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Course 8 is open to students who have passed in Course 7. It is given in 1903-1904; omitted in 1904-1905.

9. German Seminary. — Interpretation of the second part of Faust. *Two hours. Hours to be announced.* Professor POLL.

FOR TEACHERS.

10 *a*, *b*, *c*. Advanced Course for Teachers.—Methods for teaching German (advanced composition and practice in writing German.) *S.*, 9:30-11:30. Professor POLL.

Course 10 is given in 1903-1904; omitted in 1904-1905.

25. Elementary Course for Teachers.—Grammar, translation from German into English, and composition. *S.*, 9:30-10:30. Mr. BAUR.

Course 25 is given in 1903-1904.

GREEK.

FOR UNDERGRADUATES.

1. *a*. Lysias.—Six orations. Herodotus.—One book. *b*. Homer.—Iliad, Books XIX-XXII. The Lyric Poets. —Selections. *c*. Plato.—Protagoras; Lysis; Laches; Charmides. Collateral reading: *a*. Two orations of Lysias; *b*. Two books of the Iliad; *c*. Plato's Apology and Crito. *M., Tu., W., Th., F., 9:30-10:30.* Professor HARRY.

2. Greek Prose Composition.—*S., 9:30-10:30.* Professor HARRY.

3 *a*. Euripides.—Hippolytus; Medea. *b*. Sophocles.—Oedipus Tyrannus; Aeschylus.—Prometheus. c. Aristophanes.—Ranae. Thucydides.—One book. Lucian.—Two dialogues. Collateral reading: Eu-

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ripides.—Alcestis and Iphigenia in Tauris. *M., W., F., 10:30-11:30.* Professor HARRY.

4 *a.* Euripides.—Bacchae; Supplices. *b.* Sophocles.—Antigone; Aristophanes.—Aves. *c.* Demosthenes.—De Corona; Lucian.—Two Dialogues. Collateral reading: Euripides, Hecuba; Ion. *M., W., F., 10:30-11:30.* Professor HARRY.

Course 2 may be taken in connection with Course 1. Course 3 (1904-1905) and Course 4 (1905-1906) are open to students who have completed Course 1. The work in Courses 1 and 3 is carried on by means of class recitation, lectures, reading at sight and reading at hearing.

The Cincinnati Art Museum, which affords good facilities for the study of the history of Greek art, will be visited frequently by the students in Courses 3 and 4.

PRIMARILY FOR GRADUATES.

6 *a.* Aeschylus.—Prometheus; Septem. *b.* Sophocles. Philoctetes; Electra. *c.* Euripides and Aristophanes. *F.*, 1:30-2:30. Professor HARRY.

5. Rapid Reading. *M.*, 1:30-2:30. Professor HARRY.

7. Greek Seminary.—Aristophanes (1904-1905). Plato (1995-1906). The Historians (1903-1904). *M.*, 1:30-3:30. Professor HARRY.

Course 6 is open to graduates and to those who have completed the undergraduate courses in Greek. Ample facilities for the study of the authors designated have been provided

8. *a.* Greek Life. *b.* The Greek Poets. *c.* The Greek Prose Writers. *Th.*, 10:30-11:30. Students who are not acquainted with the Greek language may be admitted to this course. Professor HARRY.

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HISTORY.

FOR UNDERGRADUATES.

1 *a*. Mediaeval Institutions.—A presentation of the leading features of mediaeval life: the Church, the Gild, the Manor, etc.; the rise of cities; universities, and the development of trade. Lectures and required reading and reports. *M.*, *W.*, *F.*, 8:30-9:30. Professor WHITCOMB.

2 *b*. The Renaissance.—Origins of the Italian Renaissance; Dante, Petrarch, Boccaccio and their successors; transmission of the humanistic movement to Germany and to France; rise of the modern spirit. Lectures, collateral reading and use of source material. *M.*, *W.*, *F.*, 8:30–9:30. Professor WHITCOMB.

Course 2 *b* is open to students who have completed Course 1 *a*.

3 *a*. The Revolutionary Period.—Condition of Europe at the close of the eighteenth century; the French philosophers and their contribution to the revolutionary spirit; the French Revolution. Lectures, reports, collateral readings. *M.*, *W.*, *F.*, 9:30-10:30.

4 *c*. The Reformation.—The Conciliar period; the reform movements of Luther, Zwingli and Calvin; period of the Valois and the Edict of Nantes; Thirty Years' War and Peace of Westphalia. Lectures, collateral readings and use of source material. *M.*, *W.*, *F.*, 8:30-9:30. Professor WHITCOMB.

Course 4 *c* is open to students who have completed Courses 1 *a* and 2 *b*.

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5 *b*. The Napoleonic Period.—The Directory, the Consulate and the First Empire, to the Congress of Vienna. Life and character of Napoleon Bonaparte; reconstruction of Germany. Lectures, reports and collateral readings. *M.*, *W.*, *F.*, 9:30-10:30. Professor WHITCOMB.

Course 5 *b* is open to students who have completed Course 3 *a*.

6 *c*. Contemporary History of Europe.—From 1814 to date , including the reactionary policy of Metternich, the revolutionary movement to 1848, the rise of Prussia, the unification of Italy, the Eastern Question in its various phases, and the partition of Africa. Lectures, bibliographical reports, collateral reading. *M.*, *W.*, *F.*, 9:30-10:30. Professor WHITCOMB.

Course 6 *c* is open to students who have completed Courses 3 *a* and 5 *b*.

7 *a*. Oriental and Greek History.—This course includes a survey of the leading contributions of the Oriental nations to civilization, and of their further development among the Greeks. Special effort is also made to follow the development of the social, artistic and political life of the Greeks, and to enter into the spirit of their civilization. Lectures, hand-book, collateral reading and papers. *Tu., Th., S., 8:30-9:30.* Mr. TERRY. Course 7 *a* is not given in 1903-1904.

8 *a*. Colonial History of the United States.—A study of the gradual adaptation of European civilization to new conditions, resulting at length in such marked differences between colonial life and that of the

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mother country as to bring about separation. Lectures, source book, collateral readings, recitations. *M., Tu., W., Th., F., S., 11:30-12:30.* Mr. TERRY.

This course will we given in 1904-05 in the place of Course 11 *a*, given as a six hour course in 1903-04, and hereafter every year until further notice. (For English Constitutional History see Course 11 *c*.)

9 *b*. Roman History to 476 A. D.—A course similar in scope to Course 7 *a*. *Tu., Th., S., 8:30-9:30.* Mr. TERRY. Course 9 *b* is open to students who have csmpleted Course 7 *a*. Not given in 1903-1904.

11 *a*. Constitutional History of England.—A study of the growth of those Anglo-Saxon institutions and political ideals. This course is a preparation for the course in American Constitutional History, offered in the second term. Dale's Principles of English Constitutional History, lectures, collateral reading, use of source material, reports. *M., Tu., W., Th., F., S.*, 11:30-12:30. Mr. TERRY.

Course 11 *a* is not given in 1904-05. See Course 8 *a*.

11 *c*. Constitutional History of England.—This will be given as a three hour course in 1904-05, and until further notice.

13 *a*. The History of England from the English Migragration to the Reign of Edward I; a study of the life, character and progress of the English people as manifested in their political, social and economic activities. The course aims to cover the leading facts of English history. Andrews' History of England, lectures, roports, collateral readings. *Tu., Th., S.*, 8:30-9:30. Mr. TERRY.

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Course 13*a* is not given in 1904-05. See Course 7*a*.

14*b*. American Constitutional History. Similar in scope to Course 11*a*. Adaptation of European civilization to new conditions; origins of the American constitutions, state and federal; development of constitutional principles in the United States from 1789 to 1860. Lectures, assigned readings, reports. *M.*, *Tu.*, *W.*, *Th.*, *F.*, *S.*, 11:30-12:30. Mr. TERRY.

15*b*. The History of England from the Reign of Edward I to the Revolution of 1688. Continuous with Course 13*a*. *Tu.*, *Th.*, *S.*, 8:30-9:30. Mr. TERRY.

Open to students who have completed Course 13*a*. Not given in 1904-05. See Course 9*b*.

17*c*. The History of England in the Eighteenth and Nineteenth centuries. Continuation of Courses 13*a* and 15*b*. Growth of the British Empire. *Tu.*, *Th. S.*, 8:30-9:30. Mr. TERRY.

Open to students who have completed Courses 13*a* and 15*b*. Course 17*c* is not given in 1904-05. Course 11*c*, English Constitutional History, will be given as a three hour course.

27*c*. The Foreign Relations of the United States since the Revolution; diplomatic relations with England and France during the period of the Revolutionary and Nepoleonic wars; treaties, annexation of territory; relations with Spanish America, and the civil war. *M.*, *Tu.*, *W.*, *Th.*, *F.*, *S.*, 11:30-12:30. Mr. TERRY.

Open to students who have completed Course 14*b*.

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20. Seminary Course in American History. *W.*, 1:30-3:30. Mr. TERRY.

FOR UNDERGRADUATES AND GRADUATES.

25. Modern Problems in European History. — This course is a continuation of Course 6 *a*. Seminary methods will be used, with preparation of reports based on research work, bibliographies and map-making. Open to Seniors and Juniors who have taken Courses 2*a*, 4*b* and 6*c* or their equivalent. Ability to read French or German prose is desired. This course is continuous throughout the year. *M.*, *W.*, *F.*, 1:30-2:30. Professor WHITCOMB.

26. Modern European Governments.—A study of the governments of modern Europe, including England. This is not intended to be a course in constitutional history, but rather a survey of existing institutions. Lectures, recitations and collateral reading. Open to Seniors and Juniors who have taken Course 6*c* or its equivalent. This course is continuous throughout the year. *M.*, *W.*, 2:30-3:30. Professor WHITCOMB.

22. Seminary Course.—For the year 1903-1904 the Seminary will take up the Jocobin period of the French Revolution. This course is primarily for graduates, but Seniors with suitable qualifications will be admitted. *W.*, 2:30-4:30. Professor WHITCOMB.

Course 22 is not given in 1903-1904.

LATIN.

The work, while not neglecting the philological side of the subject, will emphasize more and more, as the student progresses, its historical and humanitarian aspect. The

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University Library has the beginning of a fair special collection, chiefly devoted to the authors most read in the course. After the second year the Seminary method will be used as far as possible. The students in Palaeography will find some MSS. and a considerable collection of facsimiles and treatises at their disposal.

FOR UNDERGRADUATES.

1. *a.* Livy.—Selections from Books I, XXI, and XXII. *b.* Horace.—Selected Odes and Epodes. *c.* Cicero.—Actio I in Verrem. Latin composition. *Sec. I., M., W., F., 10:30-11:30; Sec. II, Tu., Th., S., 10:30-11:30.* Dr. HADZSITS and Dr. ALLEN.

2. *a.* Horace.—Selected Satires and Epistles. *b.* Juvenal and Martial.—Selections. *c.* Cicero.—Some philosophical treatise. Throughout the year, brief lectures on the Roman Religion, and Latin composition. In the second term selections from Juvenal and Martial alternate with Catullus, Tibullus and Propertius. *M., W., F., 8:30-9:30.* Dr. ALLEN and Dr. HADZSITS.

Course 2 is open to students who have passed in Course 1.

3. Plautus and Terence.—Selected Plays. Archaic Latin and the Roman Theater. *Tu., Th., S., 9:30-10:30.* Dr. HADZSITS.

Course 3 is open to students who have passed in Courses 1 and 2.

4. Ovid.—Fasti and selections from his other Elegiac Poetry. *M., W., F., 11:30-12:30.* Dr. ALLEN.

Course 4 is preparatory to graduate study in Roman Religion. It alternates with Course 5.

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5. Cicero.—De Re Publica and De Legibus. Justinian's Institutes. *M., W., F., 11:30-12:30.*

Course 5 is preparatory to graduate study in Roman Public law. It is open to students who have passed in Courses 1 and 2.

6. Teachers' Course.—One hour a week devoted to advanced Latin composition. *Tu., 11:30-12:30.* Dr. ALLEN and Dr. HADZSITS.

Course 6 is open to students who have passed in Courses 1, 2 and 3, 4 or 5. It is especially recommended to those who expect to become teachers. Course 6 is given in 1902-1903.

7. History of Roman Literature, from the earliest period to the year 117 A. D. *Tu., 11:30-12:30.* Dr. HADZSITS.

Course 7 is open to students who have passed in Courses 1, 2 and 3, 4 or 5. It alternates with Course 6.

13. Vergil's Bucolics and Georgics, followed by selections from other authors. *M., W., F., 10:30-11:30.* Dr. HADZSITS.

Course 13 is open to students who have passed in Courses 1 and 2.

8. Lectures on Roman Archaeology; architectural history of Rome; sculpture and painting in the Empire period. *Tu., Th.*, 11:30-12:30. Dr. HADZSITS.

FOR GRADUATES ONLY.

9. Seminary.—Lucretius. An attempt will be made to read the whole poem, laying most stress on the work as a piece of philosophy and a literary masterpiece. *Hours to be arranged.* Dr. HADZSITS.

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Course 9 is open to students who are credited with 36 hours of undergraduate work in Latin.

10. Latin and Romance Paleography.—The history of the Latin alphabet in Western Europe, from A. D. I. to the close of the fifteenth century, including an account of books, their makers, materials, etc., in ancient and mediaeval times. Students will have abundant practice in reading facsimiles. *Hours to be arranged.* Professor BURNAM.

Course 10 must be preceded by at least four years of undergraduate work, and requires a reading knowledge of French and German. This course is not given in 1903-04.

11. Graduate Study. Credit according to work done. *Hours to be arranged.* Dr. HADZSITS.

MATHEMATICS.

FOR UNDERGRADUATES.

1. *a.* Selected portions of Algebra and the elementary Theory of Equations.—Wentworth: College Algebra; Downey: Higher Algebra.

b. Plane Trigonometry.—Crockett: Trigonometry.

c. Analytical Geometry of Two Dimensions treated from the Cartesian standpoint. Tanner and Allen: Analytic Geometry; Nichols: Analytic Geometry.

Sec. I. Tu., Th., F., S., 8:30-9:30. Dr. SLOCUM.
Sec. II. M., W., F., S., 8:30-9:30. Miss LAWLER.
Sec. III. M., W., F., S., 11:30-11:30. Miss LAWLER.
Sec. IV. M., Tu., W., Th., 10:30-11:30. Dr. SLOCUM.

2 *a.* Trigonometry, especially for students in Physics.—Crockett: Trigonometry. *M., Tu., Th., F., 9:30-10:30.* Miss LAWLER.

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3 *b*. Spherical Trigonometry.—Crockett: Trigonometry. *M., Th., 9:30-10:30.* Miss LAWLER.

4 *c*. Solid Geometry (elementary).—Wentworth: Solid Geometry. *M., Tu., Th., F., 9:30-10:30.* Miss LAWLER.

21 *b*. Algebra (same as 1 *a*) Wentworth: College Algebra. *M., Tu., Th., F., 10:30-11:30.* Miss LAWLER.

5. Calculus, Differential and Integral.—Osborne: Calculus. *M., Tu., W., F., 10:30-11:30.* Professor HANCOCK.

FOR UNDERGRADUATES AND GRADUATES.

6 *a*. Advanced Analytical Geometry of Two Dimensions.—C. Smith: Conic Sections. Lectures. *M., W., F., 9:30-10:30.* Dr. SLOCUM.

7 *b, c*. Analytical Geometry of Three Dimensions.—The plane, straight line and quadric surfaces; theory of surfaces and curves. C. Smith: Solid Geometry. Lectures. *M., W., F., 9:30-10:30.* Dr. SLOCUM.

Courses 6 and 7 are open to graduate students and to those who have passed in Course 5.

8 *a*. Advanced Integral Calculus. Elliptic Integrals.—Byerly; Integral Calculus. Lectures. *Tu., Th., S., 8:30-9:30.* Professor HANCOCK.

9 *b, c*. Differential Equations.—Forsyth: Differential Equations. Lectures. *Tu., Th., S., 8:30-9:30.* Prof. HANCOCK.

Courses 8 and 9 are open to students who have passed in Courses 6 and 7.

15. Theory of Equations, including Determinants.—Burnside and Panton: Theory of Equations. Lec-

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tures. *M., W., F., 11:30-12:30.* Professor HANCOCK.

Course 15 is open to students who have passed in Course 5. It is omitted in 1903-04.

16 *a, b.* Analytical Mechanics.—Ziwet: Theoretical Mechanics. Lectures. *M., W., F., 1:30-2:30.*

Course 16 is open to students who have passed in Courses 5, 6 and 7. It is omitted in 1903-04.

10 *b, c.* Theory of Errors and Method of Least Squares.—Johnson: Theory of Errors and Method of Least Squares. Lectures. *M., W. F., 3:30-4:30.* Dr. SLOCUM.

PRIMARILY FOR GRADUATES.

20. Theory of Maxima and Minima involving several variables. The Calculus of Variations.—Lectures. Prof. HANCOCK.

18 *a, b.* Theory of Minimal Surfaces. The developments of Lie, Darboux, Schwarz and Weierstrass compared with those of earlier writers. Lectures. *Tu., Th., S., 8:30-9:30.* Professor HANCOCK.

19 *c.* The Extended Realms of Rationality. Lectures. *Tu., Th., S., 8:30-9:30.* Professor HANCOCK.

17. Theory of Functions. Lectures. *M., W., F., 1:30-2:30.* Dr. SLOCUM.

Courses 17, 18 and 19 are omitted in 1903-04.

11. Fourier's Series and Spherical Harmonics.—Byerly: Fourier's Series and Spherical Harmonics. Lectures. *M., W., F., 1:30-2:30.*

Course 11 is omitted in 1903-04.

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FOR TEACHERS.

12. Algebra, Trigonometry and Analytical Geometry of Two Dimensions. *Sat., 9:00-11:00.* Miss LAWLER.

14. Calculus. *Sat., 9:30-11:30.* Dr. SLOCUM.

13. Theory of Equations. *S., 9:30-11:30.* Professor HANCOCK.

Course 13 is omitted in 1903-04.

22. Advanced Integral Calculus. Differential Equations *S.*, 9:30-11:30. Professor HANCOCK.

Courses 12, 14, 13, 22 include the same subjects as Courses 1, 5, 15, 8 and 9, respectively; and the same credits are allowed for them on the Registrar's books.

METEOROLOGY.

1 *b, c.* Elementary Meteorology, Theoretical and Practical. —The course is intended to give a knowledge of the leading facts concerning the atmosphere and its phenomena, and to enable the student intelligently to interpret a weather map and make a forecast therefrom. Short talks in connection with the text-book on the subjects: temperature, pressure, wind, moisture, cyclones and anti-cyclones, weather and weather maps, proverbs and forecasting. Laboratory work in connection with these subjects, singly and in combination, to establish the correlation between them and between general and local weather conditions. The course, as outlined in detail, largely contemplates self-instruction, more especially in the practical part, through observation and reasoning. Text-book, Waldo's Elementary Meteorology. For reference, Davis' Meteorology. *One hour (or more) each alter-*

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nate Saturday afternoon. Hour to be arranged with the instructor. Mr. BASSLER.

NOTE.—On account of the facilities for laboratory and practical work in the local office of the Weather Bureau, and the convenience of charts and publications for reference, should the class not be too large, instruction will be given in the private office of the Local Forecast Official, with whom arrangements may be made.

PEDAGOGY.

The courses in Pedagogy are planned primarily for teachers and for students who are preparing to teach. They are open to such students in the academic department as have had adequate preparation, particularly in Psychology. During the present year any of the courses may be counted towards the degrees of A. B. or A. M.

1. History and Principles of Education.—The development of educational theory since the Renaissance; reading and discussions of educational classics. The general topic is the development of the modern scientific view of education, with respect to aim, curriculum and methods of teaching, and to the relation of education and life. For juniors and seniors. *Tu. Th.* 4:00-5:00. Professor REIGART.
2. Principles of Teaching.–The central subject is "The Lesson." The general topics treated are: The factors in the process of teaching, the principles involved, the aim of the lesson, the general plan of the lesson, and method applied to the teaching of the subjects of the school curriculum. First

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section for seniors and graduates. *Tu.*, 1:30-2:30, *Th.*, 1:30-3:30. Second section for teachers. *S.*, 8:00-9:30. Professor REIGART.

3 *b. c.* School Management.—The special problems of school management; the relation of principal and teachers, departmental and class instruction, grading and promotion of pupils, examinations and reports, school records, the curriculum, the daily program, the tests of effective teaching. School hygiene. Comparative study of city school systems. For teachers and principals and graduates. *S.*, 10.30-11:30. Professor REIGART.

PHILOSOPHY.

The course is opened by a careful study, during three terms, of the nature and processes of reasoning. What has heretofore fallen under the general title, Logic, will now be treated under the sub-titles, forms of reasoning, construction and criticism of argument, observation, experiment and inference. No text will be used, the instruction being given by lecture, discussion and debate.

The second academic year is concerned with an outline study of ethical doctrine. The aim here is to acquaint the student with the fundamental topics in the natural order of their development and then to determine the most tenable positions.

This introductory study is followed by a year of advanced work in ethics. Contrasted world-views are examined and their ethical implications determined; distinctive ethical systems are then considered in detail and their present significance indicated.

In the History of Philosophy, two courses of one year

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each are offered for 1903-04. The first course will deal with the development of philosophical thinking from the pre-Socratic Greek Schools to the introduction of Christianity. The second course will be concerned with a detailed study of Kant's Critical Philosophy. The special aim of this study will be to examine the more modern conceptions of Kantian doctrine as found in the writings of Vaihinger, Adickes and Paulsen. This course is open to those only who can read the German texts.

The subjoined program for the entire department may serve to indicate the character of the work. In the absence of special permission to the contrary, the courses must be taken in the order given.

FOR UNDERGRADUATES.

1. Logic.—*a*. The forms of reasoning. An explanation, by lecture, of the parts of Formal Logic. *b*. The construction and criticism of arguments. Examination of modern discussions, exercises in debate. *c*. Observation, experiment and inductive inference. *M., W., F., 9:30-10:30.* Professor BENEDICT.

3. Ethics. Introductory.—*a*. Demarcation of the subject. Origin of the idea of obligation. The central question in Ethics. *b*. Examination of Ethical standards. Evolution and Ethics. Ethics and Socialism. *c*. Ethical doctrine in its bearing on the conception of society, in the several divisions of home, government, and religious observance. *Tu., Th., 8:30-9:30.* Professor BENEDICT.

Courses 1 and 3 are open to graduates on certain conditions.

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FOR UNDERGRADUATES AND GRADUATES.

7. Ethics. Advanced.—*a.* Contrasted world-views and their ethical implications. *b.* Kantian Ethics. *c.* Ethics and Theism. *M., W., F., 8:30-9:30.* Professor BENEDICT.

4. History of Philosophy. Introductory.—*a.* The Pre-Socratic Greek Schools, with an examination of such fragments of their teaching as are accessible in English. *b.* An outline of Plato's philosophical doctrine, with an exposition of the same by lecture and discussion. *c.* An outline of Aristotle's philosophy, with an exposition of the same. The doctrines of the Stoics. *Tu., Th., 10:30-11:30.* Professor BENEDICT.

8. History of Philosophy. Advanced.—Kant's Critical Philosophy. *a.* The essential teachings in Critique of Pure Reason. *b.* The Practical Reason. *c.* An estimate of the Neo-Kantian position. *Hours to be arranged with the instructor.* Professor BENEDICT.

Course 8 is open to those students only who can read the German texts.

PHYSICS.

The Department of Physics occupies the first floor and the larger part of the basement of Cunningham Hall. The former contains lecture and recitation rooms, offices, library and general laboratories. In the basement are the shops and a number of small rooms, fitted for advanced work. One of these contains no iron, and is used as the magnetic laboratory, and several have masonry piers which are detached from the floor.

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The department is well supplied with modern apparatus for illustrating lectures, and for both general and advanced laboratory work. The stock is also being largely increased. A skilled mechanic is employed in making and repairing apparatus. Every facility will be offered students requiring specially constructed apparatus.

The library of the department contains the best works in Physics, and the most important journals are on file.

FOR UNDERGRADUATES.

1. General Physics.—Three lectures and one recitation weekly. The lectures are fully illustrated by experimental demonstrations. *a.* Mechanics of solids and fluids, and heat. *b.* Sound and light. *c.* Electricity and magnetism. *M., Tu., Th., S., 11:30-12:30.* Professor MORE and Mr. CARTMEL.

It is recommended that Course 1 be chosen in the second year. A knowledge of Algebra, Plane Geometry and Trigonometry is expected, though the last may be taken at the same time with this course. The order must be, *a* first, then either *b* or *c*.

2. Experimental Physics.—Laboratory work. *Sec. I, Th., S., 8:30-11:30; Sec. II, Tu., Th., 1:30-4:30.* Mr. CARTMEL.

Course 2 is designed to accompany Course 1, and is required of scientific students taking that course.

3. Theoretical Physics.—Elementary course of lectures on the mathematical laws of Physics. Three lectures weekly. *M., W., F., 11:30-12:30.* Professor MORE.

Course 3 is open to students who have passed in Course 1 and in Calculus. It may be elected at the beginning of any term. This course gives credit as a minor in Physics for graduate students.

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4. Advanced Experimental Physics.—Experiments in photometry, spectrum analysis, calibration of weights and thermometers, etc., requiring exact measurement. *Two periods a week. Hours for laboratory work to be appointed.* Professor MORE.

13. Physical Measurements.—This course has the same requirements as Course 4, and, in connection with it, offers advanced laboratory work of one, two or three periods a week. *One period a week.* Professor MORE.

Courses 4 and 13 are open to students who have passed Courses 1 and 2, and may be elected at the beginning of any term. These courses give credit as a minor in Physics for graduate students.

5. Electricity and Magnetism.—This course includes both lectures and laboratory work in the theory and practice of electrical measurement. Either or both may be elected, credit being given according to number of hours taken. Two lectures and two laboratory periods weekly.

Course 5 is required of junior students in electrical engineering and may be elected at the beginning of any term. *Hours to be appointed.* Mr. CARTMEL.

FOR GRADUATES ONLY.

7. Lectures on the Theory of Mechanics and Sound, Light and Heat, or Electricity and Magnetism.—*Three lectures weekly.* Professor MORE.

8. Experimental Physics.—The exact determination of some of the important standard experiments. Professor MORE and Mr. CARTMEL.

This course is open to students taking Physics as a major or minor subject.

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9. Research Work.—Those electing this course will be supplied with all apparatus and materials needed, and the assistance of the mechanician will be at their disposal. Professor MORE.

10. Seminary.—The reading and discussion of an important treatise on Physics. Professor MORE and Mr. CARTMEL.

PSYCHOLOGY.

The courses in this department are closely related, on the one hand, to the courses in Pedagogy given in the Teachers College, and, on the other hand, to the courses in the Department of Philosophy. The relationship of the course in Genetic and Educational Psychology, especially, to the work in Pedagogy, is sufficiently close to justify placing it in the curriculum of the Teachers College, rather than in the curriculum of the Academic Department. The first and immediate aim of the courses in this department may be defined by the statement that these courses treat of the methods and results of scientific psychology, and give thorough training in the experimental methods as applied to the investigation of conscious experiences and their conditions.

LABORATORY.

The department occupies three rooms on the second floor of McMicken Hall. Two of these rooms are devoted to the laboratory. The laboratory is equipped with the apparatus necessary for carrying out the typical experiments in general psychology. Special apparatus will be supplied when necessary to students engaging in investigations. The department library is supplied with files and current numbers of the leading psychological journals and with the standard English and German books of reference.

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FOR UNDERGRADUATES AND GRADUATES.

1 *a*. Introductory Psychology.—This course is designed to give a general account of the subject matter of psychology, and to summarize the methods and results of psychological investigation. *M.*, *W.*, *F.*, 11:30-12:30. Dr. SLAUGHTER.

2 *b*,*c*. Laboratory Course in Psychology.—In this course students will perform in the laboratory a series of selected, typical psychological experiments on the subjects, sensation, perception, attention, memory, feeling and action. The class will be divided into small sections, and each student will be required to keep a full note-book record of the experiments performed. *One recitation and two laboratory periods.* *M.*, *W.*, 1:30-4:30, *F.*, 1:30-2:30. Dr. SLAUGHTER.

3 *b*. Comparative Psychology.—Mental processes of the lower animals. Organic reactions of the lowest forms; growth of instinct and intelligence; questions of psychical heredity; general problems of mental development. This course presupposes a knowledge of Elementary Zoology. Lectures, demonstrations and readings. *M.*, *W.*, *F.*, 11:30-12:30. Dr. SLAUGHTER.

4 *c*. Folk Psychology.—Modifications of the individual consciousness under the influence of social relations; instinctive basis of the social consciousness; development in primitive man; myth, custom and belief; psychological characteristics of the great racial stocks. Lectures and required readings. *M.*, *W.*, *F.*, 11:30-12:30. Dr. SLAUGHTER.

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A course in Anthropology is recommended as a preparation for this course.

5*a*. Psychological Basis of Morals, Art and Religion.—It is intended, in this course, to present the results of modern scientific inquiry in the fields of Ethics, Aesthetics and Religion. Lectures and required readings. *M.*, *W.*, *F.*, 1:30-2:30. Dr. SLAUGHTER.

Course 5*a* open to those who have passed in Course 4*c*.

6. Genetic Psychology.—Mental development in the individual. Problems and theories of mental development; biological factors; heredity and environment; the child and the race; methods of child study and the determination of stages; growth of the general mental processes in infancy, childhood and adolescence; special psychoses incident to the different periods of development. *Tu.*, *Th.*, 11:30-12:30. Dr. SLAUGHTER.

Course 6 is open to those who have passed in Course 1*a*, and with the course in Educational Psychology is designed as the second year's work in Psychology for students in the Teachers College.

8. Advanced Laboratory Course.—A study of the psychophysical measurement methods and their applications. *Hours to be arranged.* Dr. SLAUGHTER.

Course 8 is open to those who have completed Course 2.

9. Systematic Psychology.—This course will supplement the work of the laboratory by bringing together the different authorities for comparison and criticism. Readings, discussions and lectures. *Tu.*, *Th.*, 1:30:2:30. Dr. SLAUGHTER.

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PRIMARILY FOR GRADUATES.

10. Research.—Special investigations in the psychological laboratory may be arranged in consultation with the instructor. *Hours to be arranged.* Dr. SLAUGHTER.

11. Seminary.—A study of the most important problems of psychology in their historical, scientific and philosophical aspects. The theories held by authorities on each topic will be brought together for critical consideration. *Hours to be arranged.* Dr. SLAUGHTER.

FOR TEACHERS.

7. Educational Psychology.—Pedagogical applications of some of the more important psychological principles. Special treatment of such topics as habit, attention and memory; education of the emotions; training of the will. *Saturday*, 11:30-12:30. Dr. SLAUGHTER.

This course should be elected by students in Teachers College in connection with Course 6.

ROMANCE LANGUAGES.

FOR UNDERGRADUATES.

1. Elementary French.—Fraser and Squair, French Grammar; Kuhns, French Reading for Beginners; Labiche, La Grammaire; Laboulaye, Contes Bleus, Voyage de M. Perrichon; Daudet, Le petit Chose; Sicard, Easy French History. Composition exercises based on La dernière classe and Le Siège de Berlin. Collateral reading: Halévy, L'Abbé Constantin; La Brète, Mon oncle et mon curé. *M., W., F., 8:30-9:30.* Miss METZ.

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2. Intermediate French.—Fraser and Squair, French Grammar, Part II; Mérimée, Colomba; Dumas, La Tulipe noire; Gautier, Jettatura; Lamartine, La Révolution française; Augier, Le Gendre de M. Poirier; Dumas fils, La Question d'argent. Composition based on La Tulipe noire and Colomba. Essays on assigned topics. Collateral reading: Michelet, L'Histoire de France; Chateaubriand, Atala or René. *Sec. I, M., W., F., 1:30-2:30; Sec. II, Tu., Th., S., 10:30-11:30.* Dr. HARRY.

23. Classical Literature of the Seventeenth Century.—Warren, French Prose of the Seventeenth Century; Corneille, Le Cid, Polyeucte; Racine, Andromaque, Esther; Molière, Le Misanthrope, Les Précieuses ridicules. Practical exercises in speaking and writing French. Collateral reading: Crane, La Société française au XVIIe Siècle. Dictation and short lectures on the classic literature. *M., W., F., 10:30-11:30.* Assistant Professor LIBERMA.

Course 23 is open to students who have passed in Course 2.

7. Elementary Italian.—Grandgent, Italian Grammar; Bowen, Italian Reader; De Amicis, Gli amici di Collegio, Cuore; Goldoni, La Locandiera; Manzoni, I Promessi sposi; Martuscelli, Poesie. Composition. *M., W., F., 11:30-12:30.* Assistant Professor LIBERMA.

11. French Literature of the Eighteenth and Nineteenth Centuries.—French prose of the Eighteenth Century: Cohn and Woodward, Voltaire. Brief survey of the literature of the Eighteenth Century. Study of the literature of the Nineteenth Century, taking as a basis

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Pellissier's Le Mouvement Littéraire au XIXe Siècle. Collateral reading. This course is given wholly in French. *Tu., Th., 9:30-10:30* Assistant Professor LIBERMA.

Course 11 is open to students who have completed Course 23 or its equivalent.

6. Elementary Spanish.—Pronunciation, Grammar, Composition, Reading. Text-books: Ramsey, Spanish Grammar, and the same author's Spanish Reader; Escrich, Amparo; Alarcón, El Capitán Veneno; Gil y Zárate, Guzman el Bueno; Galdós, Doña Perfecta; Ford, Spanish Composition. *Sec. I, M., W., F., 9:30-10:30; Sec. II, Tu., Th., S., 9:30-10:30.* Dr. HARRY.

Course 6 is open to all students, but some knowledge of Latin, or of one of the other Romance Languages, is expected.

22. Spanish Literature in the Nineteenth Century.—Selected texts, collateral reading, composition, and lectures. *Tu., Th., 11:30-12:30.* Dr. HARRY.

Course 22 is open to students who have passed in Course 6.

Course 22 will be given in 1904-1905; it is omitted in 1903-1904.

FOR UNDERGRADUATES AND GRADUATES.

10. French Literature of the Sixteenth Century.—Darmesteter et Hatzfeld, Le Seizième siècle en France. Particular attention to Rabelais and Montaigne. Recitations and reports. *Tu., Th., 8:30-9:30.* Dr. HARRY.

Course 10 is open to students who have passed in Course 11.

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12. Old French.—La Chanson de Roland; Chrétien de Troyes, Yvain; Aucassin et Nicolette. Old French phonology and inflections; versification. Lectures, text-interpretation, and collateral readings. *Tu., Th., 1:30-2:30.* Assistant Professor LIBERMA.

Course 12 is open to students who have passed in Course 23. Course 12 will be given in 1904-05; it is omitted in 1903-04.

8. Spanish Literature of the 16th and 17th Centuries.—Cervantes, Don Quijote; selected plays of Lope de Vega and Calderón. History of Spanish Literature from the age of Juan II. to the Bourbons. *Tu., Th., 2:30-3:30.* Dr. HARRY.

Course 8 is open to students who have passed in Course 6, or have taken an equivalent course. Course 8 will be omitted in 1904-05; it is given in 1903-04.

21. Dante.—Inferno and Purgatorio. Lectures and reports. Collateral readings: Symonds, Introduction to Dante; Rossetti, Dante and his circle. *Tu., Th., 10:30-11:30.* Assistant Professor LIBERMA.

Course 21 is open to students who have passed in Course 7.

PRIMARILY FOR GRADUATES.

The courses for graduates are designed for those who wish to qualify themselves for independent research, and particularly for such as intend to become teachers of the Romance Languages. A knowledge of Latin and German is expected, and also proficiency in modern French.

19. Readings in Old French Literature.—Mediaeval French Drama (1903-04); Marie de France (1904-05). *One hour, to be arranged.* Assistant Professor LIBERMA.

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16. History of Old French Literature, with special reference to the origins of the French epic, lyric, and drama. The interrelations between Old French and other Romance literatures will be pointed out. Lectures and reports. *Tu.*, *Th.*, *1:30-2:30.* Assistant Professor LIBERMA.

Course 16 is open to students who have taken, or are taking Course 12. Course 16 will be omitted in 1904-05; it is given in 1903-04.

17. Provençal Language and Literature.—More attention will be directed to the poetry of the troubadours than to the prose. Pronunciation, versification, and the sounds and forms of Provençal will be discussed. Translations, outside readings, and lectures. *M., W., F., 10:30-11:30.*

Course 17 may be taken in conjunction with Course 12.

Course 17 will be given in 1904-05; it is omitted in 1903-04.

20. Old Spanish.—Phonology and Inflections. El Poema del Cid and other early monuments of Spanish. History of Spanish Literature to Juan II. *M., W., 10:30-11:30.* Dr. HARRY.

Course 20 is open to students who are taking or have taken Course 8.

Course 20 will be given in 1904-05; omitted in 1903-04.

18. Low Latin.—This is mainly a lecture course, but at least one Low Latin text will be interpreted in class. *One hour, to be arranged.* Assistant Professor LIBERMA.

Course 18 is open to students who have a reading knowledge of Latin and old French.

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24. Latin and Romance Palaeography–(See under Latin) Professor BURNAM.

Course 24 will be given in 1904-05; it is omitted in 1903-04.

FOR TEACHERS.

15. Course for Teachers.—A systematic study of the more difficult accidents of French Grammar; composition; conversation. *Saturday*, *11:30-12:30*. Assistant Professor LIBERMA.

DRAWING, MODELING AND CARVING.

By an arrangement with the Art Academy of Cincinnati (originally established as the McMicken School of Design in 1869, and a department of the University of Cincinnati from 1871 to 1884, when it was transferred to the Cincinnati Museum Association) students of the University may elect courses in Drawing, Modeling and Carving at the Art Academy in 1903-1904, and, upon presentation of the proper certificate from the Director of the School, may receive credit in the Registrar's office for such courses as part of the total number of "credits" required for the Baccalaureate degree. On the payment of a fee of *twenty-five dollars* at the office of the Art Academy, the student is admitted to the several day classes (drawing, modeling and carving). For the night classes the fee is *five dollars*. In the Summer Term of ten weeks no instruction is given at night. The Winter Term extends from September 22, 1903, to May 26, 1904; the Summer Term, from the middle of June to the end of August.

The following courses of instruction are offered:

1. Free-hand Drawing.—From objects and casts. Day

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classes, *M., W., F., 8:45-12:45, or M., F., 1:30-4:30, and S., 8:45-12:45.* Night classes, *T., Th., F., 7:15-9:15.* Miss LORD, Miss MILLER and Miss WILSON.

Color work in oils, water colors or pastels is also taught in the day classes, but not at night.

2. Drawing and Painting from Life.—Figure or head. Day classes, *M., Tu., W., Th., F., S., 8:45-12:45, and M., Tu., W., Th., F., 2:00-4:00.* Night classes, *M., Tu., W., Th., F., 7:15-9:15.* Mr. DUVENECK, Mr. NOBLE, Mr. NOWOTTNY, Mr. MEAKIN, and Mr. SHARP.

Artistic Anatomy is a part of this course. The night classes draw the head or figure from life.

3. Modeling.—From Casts. Day classes, *Tu., Th., S., 8:45-12:45.* Night classes, *M., W., 7:15-9:15.* Mr. BARNHORN.
4. Modeling. Advanced Course.—From Life. Day classes, *Tu., Th., S., 8:45-12:45.* Night classes, *M., W., 7:15-9:15.* Mr. BARNHORN.
5. Wood Carving. *M., W., F., 12:30-4:30.* Mr. FRY.

The following Teachers' Courses in Sloyd, Manual Training and Drawing are offered on Saturdays throughout the year to University students and Teachers:

1. A course in Knife Work, with Cardboard.
2. A course in Bench Work, Wood Turning and Pattern Making.
3. A course in Free-Hand and Mechanical Drawing.
4. A course in Machine Drawing.
5. A course in Architectural Drawing.

From the courses above offered, a student may elect not more than six hours in any one term. Not more than eighteen hours of work in the Art Academy will be credited for the bachelor's degree.

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GRADUATE DEPARTMENT.

I. ADMISSION.

Admission to the Graduate Department will be granted upon certificate of the Committee on Graduate Instruction to persons who have given satisfactory evidence that their previous instruction justifies their admission to the courses of the department.

II. INSTRUCTION.

(*a*) The unit of instruction in the Graduate Department is one hour a week for one term.

(*b*) In order to receive the Master's degree the candidate must have completed satisfactorily courses representing thirty-six units of graduate instruction, of which at least eighteen units shall be selected in one department. In case the candidate has previously elected the work in the department as a major for the completion of the undergraduate degree, he shall, under the direction of the head of the department concerned, elect sufficient work in some allied department to complete the required eighteen units. The requirement of a thesis is optional with the head of the department in which the major subject is taken. A year's residence at the University of Cincinnati is required for the degree of Master of Arts.

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(*c*) A candidate for the Doctor's degree shall designate, at the time of his admission to the Graduate Department, three subjects which he desires to pursue. These shall be known as a major and two minor subjects, of which not more than two shall be selected in one department, and the candidate shall satisfy the Committee on Graduate Instruction that his selection has received the approval of the heads of departments in which the courses have been selected.

(*d*) These heads of departments, together with the Committee on Graduate Instruction, shall constitute an Advisory Committee, under whose direction the candidate shall pursue his graduate course.

(*e*) Candidates for the degree of Doctor of Philosophy are expected to be able to read French and German.

(*f*) The course for the degree of Doctor of Philosophy will ordinarily require three years of study, the last one must be spent in residence at the University of Cincinnati.

(*g*) Graduate students who are applicants for advanced standing must file evidences of previous work for which they desire credits, before securing a certificate of admission to the Graduate Department.

(*h*) Before receiving the degree of Doctor of Philosophy the candidate shall be required to complete, in addition to the courses required for the Bachelor's degree, seventy-two units of instruction, embodied in a major and two minor subjects, forty-five units of which must be given to the major subject; and to pass such written examinations on his major and minor subjects as the Advisory Committee may indicate. He shall furthermore be required to present, in such form as his Advisory Com-

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mittee may determine, a dissertation which shall give evidence of high attainment and power of independent research; and he shall pass satisfactorily an oral examination before the Faculty.

(*i*) All theses and dissertations offered for the Master's or Doctor's degree must be filed with the Registrar not later than six weeks before the close of the final term of graduate study.

(*j*) Courses open to graduates and undergraduates alike shall not count for the Master's or Doctor's degree unless taken after the work for the Bachelor's degree shall have been completed.

(*k*) The maximum number of hours which a graduate student may elect is fourteen hours.

The results of investigations, if accepted for publication, will appear in the University Bulletins.

ANTHROPOLOGY AND AMERICAN ARCHAEOLOGY.

The University of Cincinnati has at its disposal excellent facilities for research work in some fields of American Archaeology; *e. g.*, the Moundbuilders and the remains of other American Indians antedating the historical period. The large collections of materials that are accessible to students prepared to carry on investigations in this field come mainly from the Ohio Valley and the mound remains of Arkansas.

The University Library possesses a very complete collection of literature on the subject.

Opportunity for research in Physical Anthropology will be offered to a limited number of students.

See Courses 1, 2, 3, 4, pages 88–98.

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DEPARTMENT OF ASTRONOMY.

The work of the Observatory is confined mainly to the astronomy of position. Graduate courses, therefore, are offered along the same lines. Opportunities for observational work will be given so far as this can be done without interfering with the scientific activity of the institution.

1. Equatorial work.
   (*a*) Determination of the position and errors of the instrument.
   (*b*) Micrometical measures of comets and planets.
   (*c*) Measures of double stars.
2. Meridian work.
   (*a*) Determination of the instrumental errors. Use of the spirit level and reading microscopes.
   (*b*) Observations for time.
   (*c*) Determination of right ascensions and declinations.
3. Zenith transit.
   Determination of the latitude by the zenith telescope method.
   In connection with these courses the best forms of reduction will be indicated, and careful and accurate work insisted on.
4. Celestial mechanics.
   (*a*) Investigation of the fundamental equations of motion and of the formula for determining the positions of bodies revolving about the sun.
   (*b*) Computation of a parabolic orbit from three observations.

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(*c*) Computation of an elliptic orbit and perturbations.

Text-book: Watson's Theoretical Astronomy.

BIOLOGY.

The equipment for graduate work in Biology is unusually complete. The department is supplied throughout with appliances of the latest models designed to meet all of the requirements of modern biological technique.

The optical apparatus is of the best quality, and includes, in addition to the ordinary equipment of compound microscopes, several instruments fitted with high-power apochromatic lenses, a number of photographic cameras supplied with Goerz lenses, Goerz stereobinoculars for field work, apparatus for microphotography and an enlarging camera. Besides these the various laboratories are equipped with microtome camera lucidas, sterilizers and incubators, as well as such special appliances as filar micrometers, Bruecke lenses, mechanical stages for microscopes and embryographs.

Excellent facilities are furnished for work in experimental biology. The third floor, arranged as a vivarium, is provided with special heating apparatus by means of which a constant temperature can be maintained. The room is supplied with a land-and-water-cage for amphibia, and other inclosures for breeding and keeping reptiles, birds and mammals. In the basement are two ice-chambers and a number of large plate-glass aquaria for marine and fresh water organisms.

Besides the regular University Library and Museum, the student has access to the library and collections of the

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Cincinnati Society of Natural History, the Library of the City Hospital, the Public Library, and several private libraries, all of which contain valuable biological journals and treatises. Arrangement has been made with the various large libraries of the city whereby the number of periodicals taken may be increased through the avoidance of duplication.

Separate laboratories are set apart for students taking courses of research, and special apparatus and literature will be provided as occasion demands.

For courses of instruction, see pages 94–98.

COMPARATIVE ANATOMY.

Professor Ayers will accept a few students in research work in Comparative Anatomy of Vertebrates.

The subjects for investigation will be chosen mainly from the fields of Comparative Neurology and the Anatomy of the Myxinoid Fishes.

The collection of materials, of laboratory apparatus and of the literature on these subjects is large.

CHEMISTRY.

The research laboratories of the chemical department are well supplied with the most approved apparatus for carrying on investigations in inorganic, organic, physical and technical chemistry.

A very complete stock of chemicals is kept on hand, and special chemicals are ordered as needed.

In addition to the customary equipment of a modern chemical laboratory, the following articles are available for use in the graduate department:

Voltmeters, ammeters, galvanometers, electrometers,

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standard elements, apparatus for the determination of electrical conductivity, standard thermometers, a Holborn & Wien pyrometer (reading to 1550° C, calibrated by the Physikalische Reichsanstalt of Berlin), apparatus for the determination of molecular weights by all the approved methods, apparatus for the determination of osmotic pressure, Fischer's constant temperature bath for high temperatures, with water and hot-air motors, Ostwald thermostats, polariscopes, microscopes, a camera, and a Fuess goniometer.

The library of the department contains complete sets of the leading chemical journals and works of reference in English, French, German and Italian.

For courses of instruction, see pages 100–101.

ECONOMICS.

In the advanced work in Economics, special attention is being given to method, including the use of statistics and the investigation of the various phases of economic history. The University Library possesses the standard economic treatises, both domestic and foreign, including complete files of the leading periodicals. For research, the equipment consists chiefly of material for the study of local and national economic history. The Robert Clarke collection and the collections of the Historical and Philosophical Society of Ohio afford excellent opportunity for the study of State and local economic development, while the Public Library of Cincinnati contains one of the most complete collections of United States Documents extant.

For courses offered, see pages 107–108.

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ENGLISH.

The department of English offers graduate students facilities for study and research, within certain limits, in English Philology and in the English Drama. Candidates for the Master's degree will find material also for the study of English literary criticism, English and Scottish ballads, and certain parts of English literature of the nineteenth century.

The most important collection of books is the Enoch T. Carson Shakspere Library, which contains the best critical editions of the last two centuries, and facsimiles of the early Quartos and of the First Folio. It also includes editions of the miracle and morality plays, works on the history of the drama, the chief predecessors and contemporaries of Shakspere, and valuable first editions of the plays of the Restoration Period.

The Robert Clarke Library, mainly historical, contains also dramatic works, rare editions of English classics, and a considerable collection of Scottish ballads.

The Library is provided with what is most essential for work in Old English. Middle English is more sparingly represented. Necessary books of reference and current scientific periodicals are at hand.

The Public Library of Cincinnati has a valuable auxiliary collection of books for the study of English literature.

For courses offered, see pages 110-112.

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GERMAN.

The German departmental library contains all the standard histories of literature, grammars, dictionaries, and the collected works of the principal German authors.

For seminary purposes it is well equipped for the study of the origin and development of the Drama, for any work connected with Middle High-German literature, and for the Romantic school.

Among the recent acquisitions is the complete set of the "Zeitschrift für deutsches Altertum." The library is well supplied with current issues of American and German scientific periodicals.

For courses, see pages 114–115.

GREEK.

The Classical Library affords facilities for graduate study in three departments of Greek literature: Philosophy, Oratory, and the Drama. In Philosophy most of the time of the Seminary is devoted to Plato. In the Drama, Aristophanes forms the center of work one year; Aeschylus or Euripides the next. Of the Attic Orators, Demosthenes claims the greatest amount of attention, though some material has been secured for work on Andocides, Lysias, Isocrates, and Aeschines.

Besides the Teubner texts and many works on Homer, the Lyric Poets, Sophocles, and the Historians, together with some important works on Greek Art and Architecture, the Library now contains a particularly valuable collection of books on Aristophanes, Aeschylus, Euripides, Plato and Demosthenes.

For courses offered, see pages 116–117.

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HISTORY.

Equipment for Research Work.—With recent additions to the Library, the Historical Seminary is now prepared to offer facilities for advanced work along two lines: in French History of the Revolutionary Period, for which two sets of archives and a considerable body of memoirs, together with the most important monographs of the modern school of French Historians, have been collected; in American History, particularly in the history of the Old Northwest, for which the Robert Clarke collection, supplemented with the collection of the Historical and Philosophical Society of Ohio (including rare and important unedited manuscripts), furnish an unusual wealth of material. The Seminary is well equipped with bibliographical guides and scientific publications, both domestic and foreign.

For announcement of courses see pages 118–122.

LATIN.

The Latin department at present offers graduate work in Lucretius, Roman Law and Religion, and Palaeography.

For the study of Lucretius, there are now at the disposal of students most of the really valuable editions and the treatises dealing with the language, literature and philosophy of the poem. More material is even now being added to the Library.

In Roman Law, we have all the ancient texts in the most approved editions, and a number of modern essays,

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both general and particular in their character. In the field of Religion, with the books accessible in the Libraries of the University and Hamilton County, students will find a sufficiency to busy themselves for at least one year's course.

In Latin Palaeography, we have the important works from Mabillon to Paoli, and the Collections from the Palaeographical Society to Chroust's Denkmaeler and Chatelain's Uncials and Semiuncials. Besides the 185 plates of the "Recueil à l'Usage de l'Ecole des Chartes," devotees of the subject have access to many of the facsimiles of the older set and several hundred of the portion distributed to the members of the Society instead of being put on the market. Including a number of complete facsimiles, we have about 5,000 plates, of which some 3,000 are in Latin; also a large number of illustrations

See courses 9, 10 and 11, page 126–127.

MATHEMATICS.

The graduate courses in Mathematics are classed under two headings:

For Undergraduates and Graduates,
Primarily for Graduates,

as described in the announcement of courses, and are given as a rule in alternate years.

Research work will be offered in, (*a*) the study of the Calculus of Variations, especially in the field recently developed by Weierstrass; (*b*) the theory of Maxima and Minima in several variables, with its application to geometry, mechanics, problems in physics, astronomy, etc.; (*c*) Theory of Minimal surfaces; (*d*) extended Realms of Rationality and Modular systems.

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Regular courses are also given in the General Theory of Functions, including the Elliptic, Hyperelliptic and Abelian Functions, Elliptic Integrals, Advanced Integral Calculus, the Theory of Differential Equations, Theory of Surfaces and Advanced Analytical Geometry.

A good working library has been collected, which includes complete sets of the leading mathematical journals of the world and the collected works of the great mathematicians. Additions will be made from year to year to fulfill the requirements of the students as the department increases, and especially along the lines in which original work is being done. The department owns an excellent collection of Mathematical Models.

For announcement of courses, see pages 125–126.

PHILOSOPHY.

In this department there is opportunity for special graduate study in the pre-Socratic philosophy of the Greeks, in the doctrines of Plato and Aristotle, and in the Critical Philosophy of Kant.

There is critical apparatus for research work in the topics above named, and appliances are also at hand for direct study of Modern Idealism as exhibited in the writings of Greene, Bradley and Royce.

For courses given, see page 130–132.

PSYCHOLOGY.

The Psychological laboratory of this University is now equipped with apparatus to meet the general needs of psychological experiment, and special instruments for research work will be ordered or constructed by the Uni-

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versity mechanician as they may be required. Included in the present equipment of the laboratory are a full set of time-recording apparatus, most of the standard instruments for investigating affective manifestations, an Ellis Harmonical, a Hering indirect vision color mixer, and a set of Auzoux models. The laboratory rooms are supplied with gas and electricity for use in experimental work.

The library contains complete files and current numbers of all the important American, English, French and German periodicals; all the standard psychological treatises, and a good collection of monographs, which is being rapidly increased. See courses, pages 136–138.

PHYSICS.

The department is now well equipped with the best and newest apparatus suitable for graduate work, and the stock is being rapidly increased. Apparatus for work in light and electricity is specially complete. The University employs a skilled mechanician who will construct or modify any apparatus needed for research work, and every facility is offered for this work.

The important current literature is on file in the Library, and complete sets of most of the journals are readily accessible. In addition the University Library contains the collected works of the great writers, and a large collection of reference and text-books on this subject.

See courses 3, 4, 7, 8, 9, 10 and 13, pages 133–135.

ROMANCE LANGUAGES.

The library of the Romance department is constantly receiving additions in the way of books and periodicals valuable for the successful prosecution of advanced study.

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It possesses, among other books, complete sets of Romanische Bibliothek, Französische Bibliothek, and of the publications of the Société des Anciens Textes français; while with respect to periodicals it contains unbroken files of Romania, Zeitschrift für romanische Philologie, Zeitschrift für französische Sprache und Litteratur, Vollmöller's Kritischer Jahresbericht über die Fortschritte der romanischen Philologie, Archiv für das Studium der neueren Sprachen und Litteraturen, Litteraturblatt für germanische und romanische Philologie, and La Nuova Antologia.

The bibliography dealing with the works of Dante is also sufficiently large to warrant thoroughness and mastery in the study of that subject. Textual criticisms by Benvenuto de Imola, Moore, Scartazzini, Fraticelli, Blanc, Vernon, Karl Witte, are available to students, besides a large collection of books and reviews that deal with the works of Dante from the standpoint of literature and history.

For statement of courses see pages 139–143.

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DR. CHARLES WILLIAM DABNEY,

PRESIDENT-ELECT,

Will become President of the University of Cincinnati on July 1, 1904.

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Pages 159 to 175 have been omitted from this catalogue by order of the Board of Directors. These pages contained an announcement of the courses of study offered in the Summer School.

There will be no session of the Summer School for 1904.

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TEACHERS COLLEGE.

Under the term "Teachers College" are included the Saturday Classes for teachers. All the courses offered by the Department of Pedagogy include the study of Psychology and such studies in other departments as are intended primarily for the training of teachers.

AIM.

The courses offered in Teachers College are planned:

1st. To provide systematic professional training for regular students of the University who wish to combine preparation for teaching with their academic work and to receive a teachers certificate as well as a university degree.

2nd. To secure for University students who are not candidates for a teachers certificate an opportunity to gain some knowledge of educational principles and history as a part of a liberal education.

3rd. To meet the needs of special students, particularly those who have had some experience in teaching, who desire a professional course without conforming to all the requirements for a degree.

4th. To afford teachers actively engaged in school work the means of continuing their professional studies. To this end certain courses are given on Saturday mornings.

REQUIREMENTS FOR ADMISSION.

Candidates for a teachers certificate and a university degree are subject to the requirements for admission to

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the Academic Department, involving 14 credits, as stated in the general catalogue, page 51.

Candidates for a teachers certificate only are subject to the conditions stated above, except teachers engaged in school work, or students who give satisfactory evidence of having had experience as teachers, may be admitted on presentation of their licenses to teach and of the evidences of their experience.

EXPENSES.

For information as to tuition charges, fees, etc., see pages 63–64.

TEACHERS REGISTER.

In connection with the Teachers College a teachers register has been installed. Any student or graduate of the University who wishes to secure a position as a teacher may register and receive gratis the benefit of the assistance of the Department in securing a position.

Cards are to be had on application to the Registrar.

DEGREES AND CERTIFICATES.

Degrees.—No degrees are granted by Teachers College, but work done in Teachers College may be accepted toward the academic degrees. Candidates for a degree must register in the Academic Department and plan their work in accordance with its requirements.

Certificates.—Two kinds of certificates are granted: (1) for High Schools, (2) for Elementary Schools.

The High School certificate indicates the subjects which the recipient is qualified to teach, and is granted

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upon the satisfactory completion of a course approved by the department of Pedagogy and by the departments in which the special are taken. Courses 1, 6 and 7 in Psychology and 2 and 3 in Pedagogy are required. Students are expected to give such evidence of ability to teach as is indicated by successful practice teaching.

The Elementary School certificate is granted upon the satisfactory completion of a general academic course approved by the department of Pedagogy; courses 1, 6 and 7 in Psychology, 2 and 3 in Pedagogy; and a course in the methods of teaching elementary school subjects. Evidence of ability to teach is required as indicated above.

GENERAL COURSES.

The following general course is suggested for students preparing to teach in elementary schools:

First Year. — English, History, Science (Biology, Physics or Chemsstry), Language (German, French or Latin).

Second Year.—English, History, Science, Language, Psychology, Logic.

Third Year.—History and Principles of Education, Genetic and Educational Psychology, Ethics, English, Languages, Sciences.

Fourth Year. — School Management, Principles of Education and General Method, Special Methods for Elementary Schools, English, Sciences or Philosophy.

A detailed statement of the courses may be found in the announcement for the Academic Department.

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COURSES IN EDUCATION.

PEDAGOGY.

1. History and Principles of Education.—Tu., Th., 4:00-5:00. Professor REIGART.
2. Principles of Teaching.—*Section 1*, for University students. Tu., 1:30-2:30, Th., 1:30-3:00. *Section 2*, for teachers. S., 8:00-9:30. Professor REIGART.
3. School Management. S., 10:30-11:30. Professor REIGART.
4. Methods in Elementary Schools.—*Hours to be arranged.* Professor REIGART.

PSYCHOLOGY.

1. Introductory Psychology.— M., W., F., 11:30-12:30. Dr. SLAUGHTER.
6. Genetic Psychology.— Tu., Th., 11:30-12:30. Dr. SLAUGHTER.
7. Educational Psychology. — S., 11:30-12:30. Dr. SLAUGHTER.

PHILOSOPHY.

1. Logic.—M., W., F., 9:30-10:30. Teachers class. S., 10:30-11:30. Professor BENEDICT.
3. Ethics.—Tu., Th., 8:30-9:30. Professor BENEDICT.

BIOLOGY.

15. Special Problems in Botany or Zoology; for the benefit of teachers who wish to familiarize themselves with modern laboratory methods, and with methods of collection in the field. *Hours to be arranged.* Mr. BENEDICT.

ENGLISH.

11. English Composition and Rhetoric; methods of teaching English Composition. Th., 4:30-5:30. Assistant Professor MILLER.

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GERMAN.

10. Advanced Course.—Methods of teaching German, advanced composition and practice in writing German. S., 9:30-11:30. Professor POLL.

HISTORY.

23*b*. Course in method of History Teaching. — For teachers only. Winter term. Sat., 9:30-10:30. Professor WHITCOMB.

PHYSICS.

11. Laboratory Methods.—This course comprises a set of experiments designed especially for teachers. The experiments will include those which are usually given in schools and also those of a more difficult nature which illustrate the theoretical principles. S., 8:30-11:30. Mr. CARTMEL.

ROMANCE LANGUAGES.

Methods of Teaching Romance Languages.—Exposition of methods used in teaching Romance Languages. Courses of studies pursued in high schools and universities during the first three years of French. S., 11:30-12:30. Assistant Professor LIBERMA.

PHYSICAL CULTURE.

A course in Gymnasium work for teachers will be given during the winter term if there is a sufficient number of applicants; twelve members will be necessary in order to form a class.

This work will be of a Normal School character—the Swedish System and Nomenclature being taught.

Director CHEZ will have charge of the work.

Winter term, Saturday morning.

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SATURDAY CLASSES FOR TEACHERS.

GENERAL ANNOUNCEMENT

Courses Offered.—The special courses for teachers fall into two groups: to the first group belong those courses that provide opportunity for the further pursuit of academic studies; and to the second group, those courses that have to do directly with the teacher's professional training.

In nearly all departments of the University certain lectures and laboratory exercises are placed at hours convenient for teachers, making it possible for those who live within twenty miles of the University to carry on a continuous course of study equivalent to the regular university work.

In addition to the professional courses for teachers offered by the departments of Pedagogy and Psychology, certain other departments offer courses in the methods of teaching their special subjects.

Public lectures of interest to teachers are given during the year. Some are mentioned in this bulletin, others will be announced later.

Credit.—Full credit is given on the books of the Registrar for any work of a university grade done in connection with these courses.

Expenses. — No tuition will be charged for these courses, but all students will pay the regular Library fee and the usual fee in laboratory courses.

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Limitations.—Admission to advanced courses is conditioned upon ability to do the required work.

The University reserves the right to withdraw any course not elected by a sufficient number of teachers. Unless otherwise stated, the required number is six.

Place.—The courses announced in this bulletin are given in the University Building in Burnet Woods Park, where library and laboratory facilities are at hand.

Information.—Address Professor J. F. Reigart for further information regarding extension classes or Teachers' Courses in the University.

COURSES FOR TEACHERS.

BIOLOGY.

Nature Study.—"Study Nature, not books."—Agassiz.

15. Special Problems in Botany or Zoology.—A course for teachers who have had training sufficient to enable them to take up special problems. In case the results are an actual contribution to science arrangements will be made for their publication. *Hours to be arranged.* MR. BENEDICT.

The work is planned largely for the benefit of teachers who wish to familiarize themselves with modern laboratory methods, and with methods of collection and observation in the field. A laboratory fee of five dollars is charged to cover the expenses of the material used.

University Club of Natural History.—A valuable adjunct to the regular courses for teachers is the Cincinnati Teachers' University Club of Natural History, which is an outgrowth of the work in nature-study in the University.

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The object of the Club is to study the natural history of Cincinnati and vicinity, to establish a museum, and to review current literature on Natural History. It is a permanent organization, and is especially helpful to those who wish to familiarize themselves with work in the field, and to acquire that facility in presenting the facts of nature at first hand, which is indispensable to the modern teacher of "nature-study." The Club consists of active members only, and membership is restricted to persons who have done accredited work in Natural History in an approved institution of learning, or who have shown decided ability as teachers or investigators in some branch of Natural History.

Provision has been made whereby high school clubs and non-resident Natural History organizations may enter into affiliation with the University Club. Upon acceptance of their application, the society concerned is given a certificate of affiliation, and is recommended to appoint one or more delegates to attend the meetings of the central club at the University. Such delegates may be admitted as *bona fide* members of the University Club of Natural History provided the maximum limit of membership (fifty) is not thereby exceeded. A general meeting of all affiliated organizations is held at the University in June of each year. The regular club meetings are held on the *second* and *fourth Tuesdays* of each month.

WILLIAM OSBORN, President.

CHEMISTRY.

29. Theoretical Chemistry.—Lectures of an elementary character upon the general laws of chemistry, embracing a study of the phase rule, the law of

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mass action, the velocity of reactions, catalysis, the ionic theory, thermochemistry, etc. The lectures are illustrated by experiments.

Saturday, 11:30–12:30. DR. SNELL.

Course 29 is open to students who have passed in Courses 1 and 2 or their equivalent.

ECONOMICS.

1 *a*. Theory of Economics.—A course in the fundamental principles of economics. This course is intended to lay the foundation for the scientific consideration of social problems in so far as they involve economic phenomena. After a study of the nature of economics, the fundamental concepts, the law of value and the economic process, an attempt is made to discover the conditions upon which efficient production depends, following which the economic process is analyzed to determine the principles of distribution. So far as possible, a comparative study is made of the views of representative economists.

Sat., 8:30-9:30. Professor HICKS.

This course is open to teachers only.

ENGLISH.

11. English Composition and Rhetoric.—This course is intended especially, first, for teachers, who feel the need of further training in composition, but who are unable to take the regular courses in composition offered to undergraduates; and, second, for teachers of English who wish to get further insight into methods of teaching English Composition. Lectures on the principles of structure, the elements and qualities of style and the kinds of com-

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position are supplemented by the use of a simple manual of the principles of composition and by an inductive study of specimens of the different kinds of composition. Such rhetorical study is not made an end in itself, but only a means to the chief end of the course — effective composition by the students themselves. To this end constant practice under criticism is given in the writing of both short and long themes in exposition, description, narration and argumentation. *Th.*, 4:30-5:30. Assistant Professor MILLER.

This course is open to teachers only.

12. English Literature.— *a*. Literature of the Eighteenth Century. *b*. Poetry of the Nineteenth Century. *c*. Prose of the Nineteenth Century. The purpose of Course 12 is twofold: to trace the development of English literature from the time of Pope to the death of Tennyson; and to study carefully some of the writings of a number of the principal authors of the period. In the development of English literature the following subjects will be briefly discussed: Classicism, Romanticism, the influence of the French Revolution on English literature. Among the authors studied during the first term will be: Pope, Addison, Steele, Swift, Prior, Gay; during the second term: Wordsworth, Keats, Shelley, Byron, Tennyson, Browning, Rossetti; during the third term: Scott, Carlyle, Macaulay, Thackeray, George Eliot. Instruction is given by lectures. Frequent reports of collateral reading are required. *Sat.*, 9:30-10:30. Mr. MURRAY.

Course 12 is open to teachers only.

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GERMAN.

25. Elementary Course.—This course is intended for beginners, and its aim is to give the student a knowledge of German sufficient to enable him to read simple German at sight and translate easy connected prose into German. With this object in view, grammar study, reading, composition and oral practice in German form the chief part of the work. S., 9:30–10:30. MR. BAUR.

10. Advanced Course.—Methods of teaching German, advanced composition and practice in writing German. Saturday, 9:30–11:30. Professor POLL.

HISTORY.

23*b*. Course in method of History Teaching. The course will review the suggestions of Diesterweg, Sheldon-Barnes, Blackie, Lord Acton and others, with especial reference to the *Report of the Committee of Seven*, H. E. Bourne's *The Teaching of History and Civics*, and the Select Committee's *Report on the Use of Historical Sources in Schools*. For teachers only. Winter term. S., 9:30–10:30. Professor WHITCOMB.

24*c*. The Renaissance.—Dante, Petrarch and Boccaccio and their followers. Beginnings of the Modern Era; Formation of Modern Nations; The New Impulse in Commerce, Discovery and Invention; New Ideas in Education. Open to the public. Spring Term. Saturday, 10:30–11:30. Professor WHITCOMB.

LATIN.

The Latin Department offers two courses for Teachers, during 1903–04.

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1. An advanced course in Lucretius, for such as have had sufficient work in Latin and who plan to take either the degree of Bachelor of Arts or an advanced degree. Lucretius will be read entire and an effort will be made to interpret the poem and to relate Lucretius to the previous development in ancient thought. Professor HADZSITS.

2. An undergraduate reading course, adapted to the needs of teachers who have had no University training in Latin. Professor HADZSITS.

Hours to be arranged with the Instructor.

MATHEMATICS.

1. Algebra, Trigonometry and Analytical Geometry of Two Dimensions. Sat., 9:30–11:30. MISS LAWLER.

An elementary knowledge of quadratic equations is required.

2. Calculus. Saturday, 9:30–11:30. DR. SLOCUM.

3. Advanced Integral Calculus; Differential Equations. Saturday, 9:30–11:30. Professor HANCOCK.

PEDAGOGY.

1*b*. School Management.—This course is particularly adapted to the interests of school principals. It consists of an introductory series of lectures on the school systems of some typical great cities, Berlin, Vienna, Rome, London, New York, etc., treating of school buildings, sanitation, discipline, curricula and methods of instruction.

The lectures are to be followed by the discussion of the special problems of school management; the relation of principal and teachers, departmental and class instruction, grading and promotion of pupils, examina-

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tions and reports, school records, the curriculum, the daily program, the tests of effective teaching, study periods, and the relation of the school to the community.

The course will be open to only those properly qualified, and will be limited in number in order to provide opportunity for individual work and for free discussion. Once a week. Saturday, 10:30 A.M. Winter term.

Professor REIGART.

2. The Art of Teaching.—This course presupposes a general knowledge of educational principles and some practical experience. It aims at unifying theory and practice and constructing a systematic pedagogy.

The central subject is "The Lesson". The general topics treated are: The factors in the progress of teaching, the principles involved, the aim of the lesson, the general plan of the lesson, and method applied to the teaching of the subjects of the school curriculum.

The work will be conducted by means of lectures, reading and discussions; the reading to include principles of education, general method and special methods.

Saturday, 8:00–9:30. Professor REIGART.

3. Educational Classics.—No attempt is made to cover the entire field of educational history. The scope of the course is, in general, limited to what can be covered by the reading of readily available authors.

The general topic is the development of the modern scientific view of education, with respect to aim, curriculum and methods of teaching, and to the relation of education and life.

Critical reading from selected authors, supplemented

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by occasional lectures, will constitute the main work of the class.

The reading will be chiefly from Spencer, Locke, Milton, Rousseau, Pestalozzi, Froebel, and Prof. Dewey. Twice a week. Tu., Th., 4:00–5:00. Professor REIGART.

PHILOSOPHY.

AN EXPLANATION OF FORMAL LOGIC.

Here the process of reasoning will be examined in itself and in its component parts. These will be traced to their ultimates in experience.

There follows a critical examination of inference from its inner and outer sides, *i. e.*, as a psychical process and as applied to subject-matter.

The class-work requires a direct *participation* on the part of the student by discussion and carefully prepared papers.

The entire study will be illustrated by constant application to central questions in modern ethical doctrine. *Sat.*, 10:30-11:30. Professor BENEDICT.

This course will be commenced when not less than twelve students are enrolled. It will be given during the winter and spring terms, 1903–1904.

PHYSICS.

11. Laboratory Methods.—This course comprises a set of experiments designed especially for teachers. The experiments will include those which are usually given in schools and also those of a more difficult nature which illustrate the theoretical principles. Saturday, 8:30–11:30. Mr. CARTMEL.

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PHYSICAL CULTURE.

A course in Gymnasium work for teachers will be given during the winter term if there is a sufficient number of applicants; twelve members will be necessary in order to form a class.

This work will be of a Normal School character—the Swedish System and Nomenclature being taught.

DIRECTOR CHEZ will have charge of the work.

Winter term, Saturday morning.

PSYCHOLOGY.

Child Study.—This course, without going into the technicalities of method, will attempt to summarize the results of modern child study. Special emphasis will be laid upon the kind of instruction suggested by the interests and needs of the growing child.

No previous preparation in psychology will be required for admission to the class. Saturday, 8:30–9:30. Dr. SLAUGHTER.

ROMANCE LANGUAGES.

Method of Teaching Romance Languages.–Exposition of methods used in teaching Romance Languages. Courses of studies pursued in high schools and universities during the first three years of French. Saturday, 11:30–12:30. Assistant Professor LIBERMA.

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COLLEGE OF ENGINEERING.

FACULTY OF THE COLLEGE OF ENGINEERING.

HOWARD AYERS, Ph.D., LL.D.,

President of the University.

THOMAS EVANS, Ph.D.,

Professor of Technical Chemistry.

CHRISTIAN WILLIAM MARX, B.E.,

Professor of Mechanical Engineering.

HORACE TAYLOR EDDY, E.E.,

Professor of Electrical Engineering.

HERMAN SCHNEIDER, B. S.

Assistant Professor of Civil Engineering.

JERMAIN GILDERSLEEVE PORTER, Ph.D.,

Professor of Astronomy and Director of the Observatory.

EDWARD MILES BROWN, Ph.D.,

Professor of English.

HARRIS HANCOCK, Ph.D.,

Professor of Mathematics.

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LOUIS TRENCHARD MORE, Ph.D.,
Professor of Physics.

FLORENCE CAMERON LAWLER, B.S.,
Instructor in Mathematics.

STEPHEN ELMER SLOCUM, B.E., Ph.D.,
Instructor in Applied Mathematics.

WILLIAM B. CARTMEL,
Instructor in Physics.

JOHN TUCKER MURRAY, A.M.,
Instructor in English.

JOHN FERGUSON SNELL, Ph.D.,
Instructor in Chemistry.

PHILIP HENRY HARRY, Ph. D.,
Instructor in Romance Languages.

EDWIN G. GREENMAN,
Instructor in Machine Design and Drawing.

JOHN H. TRAEGER.
Instructor in Civil Engineering.

HARRY SHIPLEY FRY, A.M.,
Instructor in Chemistry.

SYLVANUS CARL SHIPLEY, B. S. in M. E.
Instructor in Forging and Machine Shop.

LEIGH RODGERS,
Instructor in Wood Shop.

CLEMENT HENRY BELL,
Instructor in Woodwork and Forging.

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REQUIREMENTS FOR ADMISSION.

The following are the requirements for admission to the Freshmen class for the session of 1903-1904:

A student who pursues successfully in any accredited preparatory school any one of the subjects mentioned in the list given on page 51 for four hours a week for one school year, is entitled to *one credit.*

Fourteen credits are required for admission.

The fourteen credits elected must include the following nine:

2 Credits in English.

2 Credits in either French, German or Spanish.

3 Credits in Mathematics.

1 Credit in Science (Physics, Chemistry, Botany, Zoology).

1 Credit in History.

Latin may be offered for admission instead of the modern languages; but students who offer Latin must take two years' work in modern languages in the University, in addition to the regular course.

Students who are unable to furnish a certificate from an approved school may enter on examination. (See page 56.)

A student deficient in any one study may be given permission to enter conditionally.

COURSES AND DEGREES.

There are four courses offered, which lead respectively to the degrees of Bachelor of Science in Civil Engineering, Bachelor of Science in Mechanical Engineering, Bachelor of Science in Electrical Engineering, and Bachelor of Science in Chemical Engineering. The degrees of Civil Engi-

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neer (C. E.), Mechanical Engineer (M. E.), Electrical Engineer (E. E.), and Chemical Engineer (Ch. E.), will be conferred on candidates who, after receiving the first degree from this University, or one of equivalent standing, have spent in the same course one year in graduate work in the University, or two years in professional practice and graduate work *in absentia*, have passed an examination on such work, and have presented a satisfactory thesis.

FEES AND EXPENSES.

The tuition fee is *seventy-five dollars* a year. Students who are not *bona fide* residents of Cincinnati are required to pay a fee of *five dollars* a term for every laboratory course, *five dollars* a term for shop-work, and *one dollar* a term for work in the drawing room.

A deposit of *fifteen dollars* is required of all students who take Chemistry. A deposit fee of *five dollars* is required of all students who take Shop-work. This sum, after the cost of apparatus lost or broken has been deducted, will be refunded at the end of the year.

All students must pay, each academic year, an incidental or library fee of *five dollars*.

All fees must be paid in advance to the Clerk of the Board of Directors of the University at the beginning of each term.

FACILITIES.

The College of Engineering occupies the three floors of Hanna Hall and the Hanna Hall Annex.

The drafting room is large, well lighted and provided with all the modern drafting devices found in the best

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drafting offices. There is a large collection of original drawings, blue prints and photographs of modern engines, dynamos, boilers, bridges, motors and structures. Students are thus made familiar with the actual working drawings pertaining to the several branches of modern engineering.

The library contains the important books and journals treating of modern engineering, in English, German and French.

The laboratories are equipped with the most improved devices and with the necessary apparatus for carrying on exhaustive experiments and investigations in chemical, civil, mechanical, hydraulic and electrical engineering.

The University has acquired, by gift, the equipment of the shops of the Technical School of Cincinnati, together with an extensive and substantial shop structure, 243 x 50, having a floor space of 25,000 square feet, and fully equipped with all the tools and machines essential to a modern engineering school.

LOCATION.

The University of Cincinnati is situated in the very heart of the manufacturing district of the Middle States, and is surrounded on all sides, within easy reach, by manufacturing communities, whose reputation is international. The students, therefore, have exceptional opportunities for visiting and studying many kinds of factories, and may see carried out in practice what is discussed in the classroom and laboratory. These extensive and varied manufacturing plants are, as it were, a great laboratory where machines, tools and motors of every kind are made and

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tested. This is a rare condition of things indeed, and offers to the student advantages quite superior to those provided by the largest and most perfectly equipped engineering laboratory. The managers of these plants afford every opportunity to the student for study and tests.

Again, these large and diversified manufacturing interests surround the student with the proper engineering atmosphere, and bring him into almost daily contact with work and men in his chosen field. Naturally there is a great demand for young and trained engineers in such surroundings. Applications are received at the University for more graduates of the College of Engineering than can be supplied.

CIVIL ENGINEERING.

The purpose of this course is to give a broad education in those subjects which form the basis of all branches of technical education, and a special training in those subjects comprised under the term "Civil Engineering."

The Freshman year is, for the most part, devoted to fundamental studies. The student is made familiar with the use of the pencil in the production of free-hand sketches and in lettering. In Descriptive Geometry the principles of right line drawings and projections are thoroughly taught. Land Surveying gives practical application of Plane Trigonometry.

In the Sophomore year, those studies fundamental to engineering are completed and the technical work of civil engineering is begun. Construction drawing makes the student familiar with the internal details of structures whose exteriors he is familiar with through the common experiences of his every-day life.

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In Topographic Surveying, the methods of determining the form of land surfaces are taught. In Hydrographic Surveying, the character of river shores and bottoms and the discharge of streams are determined.

The Cement Laboratory is equipped with a 2,000-pound tension and compression machine, as well as apparatus for the tests of hot water, boiling, specific gravity, temperature, setting, and permanence of volume. Each student is required to make a complete set of tests on several brands of cement, both natural and Portland, and submit a report of his work. The class work in connection with these tests consists of the study of the chemical composition and manufacture of cement. Tests on concrete and steel-concrete construction are also made.

In the Junior year the student begins the study of the fundamental theory of design of engineering structures by the study of Mechanics.

This is put into practice by the course in Construction, where dams, walls, beams, columns, streets and pavements are designed.

In conjunction with the above, work in the Strength of Materials Laboratory is required.

This laboratory is equipped with a 100,000-pound Riehlé testing machine, with automatic and autographic attachment; a 60,000-inch pound torsion machine, and a standard brick rattler, together with extensometers, compressometers, micrometers, and many special machines.

The student is required to make over one hundred tests on the materials of construction, and submit a report thereon.

The theory of Railroad Surveying is taught during the third term, and during the summer the work is finished

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in the field and office. During the year familiarity with the methods and materials of railroad construction, as well as with organization and maintenance, is given in the course in Railroad Construction. The study of Geodesy gives the methods of determination of the form of the earth.

The Senior year is devoted entirely to the higher and more difficult branches of the subject of Civil Engineering.

The theory of Hydraulics furnishes the foundation principles for the design of water supply, sewerage systems and development of water power. The Hydraulic Laboratory is equipped with a stand-pipe 35 feet high, in which constant heads up to that limit can be kept, with a flume and penstock for testing small turbines, with casings for tests of water motors and wheels, and with many weirs, gauges, meters and special apparatus. Several different types of small turbines and water wheels are kept on hand in order to familiarize the student with efficiency tests.

The course in Framed Structures begins with a series of lectures on the manufacturing of the crude material and the various processes until the finished structure is reached.

Estimates of cost, general and detailed drawings are made, and checked in accordance with the methods used in the larger steel and bridge plants of this country. The course in Sanitary Engineering covers every phase of Sanitation.

The theory of the flow of liquids in channels and pipes is given in Hydraulics. The theory and design of the combined and the separate systems of sewerage are carefully studied. Special attention is given to sanitary house drainage and plumbing.

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A course in the aesthetics of architecture is given in the first term of the Senior year to familiarize the student with the styles and orders. This is followed by appropriate lectures on the aesthetic design of engineering structures.

During the second term the design of wood, brick and stone buildings is taught by lectures. The course is concluded with the detailed design of a steel framed office building.

The design and detailing of water supply systems, and the inspection of existing plants, will familiarize the student with the practical details.

This, together with the course in Construction, will qualify the student to take up the work of City Engineering. Students not desiring to take a degree in Engineering will be given every facility for the study of such courses as they are prepared for.

COURSES OF INSTRUCTION.

CIVIL ENGINEERING.

FRESHMAN YEAR.

SUBJECT:	COURSE.	I. Term	II. Term	III. Term
Trigonometry	Mathematics 2 *a*	4		
Algebra	Mathematics 1 *b*		4	
Analytical Geometry	Mathematics 1 *c*			4
English	English *a*, *b*, *c*	2	2	2
Chemistry	Lecture 1 *a*, *b*	3	3	
Chemistry	Laboratory 2 *a*	2		
Chemistry	Lecture 3 *b*, *c*		1	2
Chemistry	Laboratory 4 *b*, *c*		1	2
Chemistry	Lecture 5 *c*			1
Surveying	C. E. 1 *c*			3
Descriptive Geometry	Drawing I *a*, *b*	3	3	
Perspective	Drawing 1 *c*			3
Freehand Drawing	Drawing 1 *a*	2		
Shop-work	Shop 1 *a*, *b*, *c*	3	3	3

SUMMER TERM.

Land Surveying.....C. E. 1 *d*.....See Detail of Courses.

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SOPHOMORE YEAR.

SUBJECT.	COURSE.	I. Term	II. Term	III. Term
Calculus	Mathematics 5 *a*, *b*, *c*	4	4	4
Physics	Physics 1 *a*, *b*, *c*	4	4	4
Physics	Physics 2 *a*, *b*, *c*	2	2	2
Construction Drawing	Drawing 2 *a*, *b*, *c*	3	3	3
Topographic Surveying	C. E. 2 *b*		3	
Cement Laboratory	C. E. 3 *a*	3		
Shop-work	Shop 2 *a*, *b*, *c*	3	3	3

SUMMER TERM.

Topographic Surveying.....C. E. 2 *d*.....See Detail of Courses.

JUNIOR YEAR.

Mechanics	M. E. 1	6	6	6
Steam Engineering	M. E. 3	3	3	3
Railroad Construction	C. E. 4 *c*			3
Railroad Surveying	C. E. 4 *c*			3
Construction	C. E. 6 *a*, *b*	3	3	
Strength of Materials Lab.	C. E. 7 *a*, *b*	3	3	
Mathematical Theory of Electricity and Electrical Machinery	E. E. 1 *a*, *b*	3	3	
Electric Power and Railway	E. E. 6 *c*			3

SUMMER TERM.

Railroad Surveying.....C. E. 4 *d*.....See Detail of Courses

SENIOR YEAR.

Geodesy and Least Squares	Astronomy 2 *c*			3
Hydraulics	C. E. 8 *a*, *b*, *c*	3	3	3
Astronomy	Astronomy 1 *a*, *b*	3	3	
Framed Structures	C. E. 9 *a*, *b*, *c*	6	3	3
Sanitary Engineering	C. E. 10 *a*, *b*, *c*	3	3	3
Machine Design	M. E. 4 *b*, *c*		3	3
Architecture	C. E. 11 *a*	3		
Building Details	C. E. 11 *b*		3	
Mill Engineering	M. E. 6 *c*			3

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COURSES IN DETAIL.—CIVIL ENGINEERING.

1 *c*. Land Surveying.—The theory, use and adjustment of the compass, the transit and the level. The theory of land surveying, with the solution of practical problems. The surveying of areas in city and country, and computations of the same, together with the drawing of maps and profiles.

2 *b*. Topographic Surveying.—The theory of stadia and hydrographic work, together with the solving of practical problems.

d. The field work of stadia and hydrographic surveys, with the construction of maps of the same.

3 *a*. Cement Laboratory.—The preparation and making of all standard tests on cement, mortar and concrete.

4 *c*. Railroad Construction.—The construction of subgrade, roadbed, trestles, tunnels and drains, maintenance of way and organization.

c. Railroad Surveying.—The reconnaissance, preliminary and location methods, with theory of tangents, curves, cross-overs and turnouts.

d. Survey of a line, together with map, profile and estimate of cost.

5 *d*. Geodesy.—Field work in triangulation and azimuth determinations with engineer's transit and solar instruments.

6 *a*, *b*. Construction.—The materials of construction with reference to testing. Theory and design of masonry structures and foundation. Design of streets, roads and pavements.

7 *a*, *b*. Strength of Materials Laboratory.—The preparation of specimens and testing of the same for all

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standard materials of engineering construction. Reports and comparison of the same.

8 *a, b.* Hydraulics.—The theory of the flow of water through orifices, pipes, tubes and channels. River and sewer hydraulics and naval hydro-mechanics. Laboratory verifications of class room work.

c. The theory and design of water wheels and turbines. Testing of water wheels and turbines for efficiency.

9 *a.* Framed Structures.—The theory and design of details. Shop-work and inspection. Specification. The design and detailing of roof trusses.

b. The theory, design and detailing of railroad bridges.

c. The theory, design and detailing of steel buildings. Theory of cantilever, arch and suspension bridges.

10 *a.* Sanitary Engineering.—Sewage disposal, mechanical and chemical. Sewer details.

b. Water Supply and details of methods.

c. Design of sewerage and water supply systems.

11 *a.* Architecture.—The history of Architecture. The study of architectural styles and orders. The aesthetic design of engineering structures.

b. Detailed design of wood, brick and stone buildings.

THE SUMMER TERM.

The field work in Land Surveying, Topographic Surveying and Railroad Surveying, is done in the three weeks of the summer vacation following the end of the Freshman, Sophomore and Junior years respectively. By this arrangement the student is placed directly in contact with continuous and practical field and office work. In Land Surveying, distances and elevations are determined by transit as well as by chain and level; blocks in

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the city and fields in the country are surveyed, maps made and deeds drawn up. In Topographic Surveying, the survey, of about one hundred acres, is made by means of the stadia, and a contour map of the same finished. The hydrographic survey of some stream or part of the Ohio River is made, together with a chart showing results. In Railroad Surveying, an office location is first made, together with estimate of cost; the line is then run on the ground, topography taken, and finally a map and estimate of cost is prepared. The Geodetic work consists in the exact measurements of base lines, the determination of azimuth, and the establishment of a triangulation system, together with the adjustment of the same. All work is done in accordance with the same methods adopted in practical surveying by a corps of engineers.

MECHANICAL ENGINEERING.

The object of this course is to prepare young men for responsible positions as supervising and designing engineers.

In order that the young engineer may design intelligently, construct economically and supervise thoroughly, it is necessary that the course be both practical and theoretical. The practical work familiarizes him with a knowledge of the use of the various machine and hand tools; the theoretical courses acquaint him with the fundamental principles underlying all structural work and machine construction. By this method the student is brought face to face with many of the conditions and problems that confront all designers and superintendents.

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In order to prepare the student for his professional course, thorough training is given in Mathematics, Drawing and Descriptive Geometry, Shop-work, Chemistry, Physics and English. The student prosecutes his professional studies during the Junior and Senior years in the following subjects: Mechanics, Steam Engine and Indicator, Steam Boiler, Link and Valve Motions, Kinematics, Machine Design, Steam Engine Design, Hydraulics, Thermo-dynamics, Mill Engineering, Steam Heating and Ventilating, Electrical Machinery and Transmission of Electrical Power, and courses in the experimental Engineering Laboratories: (1) Electrical Laboratory, (2) Strength of Materials Laboratory, and (3) Mechanical Laboratory.

In Mechanics, a thorough course covering the entire Junior year is given in Statics, Dynamics, Strength of Materials and Framed Structures. During the first and second terms of the Junior year an elementary course is given in the Steam Engine and in the Theory and Practice of the Indicator.

The student is familiarized with elementary Thermo-dynamics and with the physical forces involved, as well as with the various parts and different types of engines. In the following term a complete course in Steam Boiler design is given.

A study of the differences in plan of construction of the several types of boilers, with special reference to strength, form, efficiency and durability; considerable time is given to the study of boiler waters, setting, arrangement of steam plant, boiler appliances, combustion, rating, ratio of heating surfaces to grate areas, and the testing of boilers.

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In addition to this, the class will have opportunity to study the power plant of the University.

In Link and Valve Motions, a thorough investigation is made of the merits of the different kinds of valves and link motions in use by the various reputable engine-builders.

In Kinematics, a comprehensive course is given in the geometry of machine parts, the laws which govern their motions and velocities.

Special attention is given to the study of the correct forms for gear teeth, cams, screws and linkages.

In Machine Design, the relative strength and properties of engineering materials are discussed, attention being given to the manufacture and composition of the materials used in machine construction. Machine shop methods are studied in detail. This course, together with the courses in Mechanics, Steam Engine, Steam Boilers, Link and Valve Motion and Kinematics, prepares the student to take up the study of machine design in the laboratory as well as in the lecture room. As the student advances, complete designs of machines are thoroughly studied. The requirements of accuracy, careful figuring and lettering are insisted upon.

The course in Steam Engine Design consists of a careful and systematic analysis of the forces, stresses and parts of the engine. A complete set of drawings is made of a selected type of engine of large dimensions, only two students working on the same type. Catalogues, photographs and drawings of standard makes are freely consulted. Every student designs, in addition, a complete boiler, the details of its setting, and the plan of the connected steam plant, with its various accessories, including a brick or steel chimney.

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In Hydraulics, the instruction is given on the flow of water in channels and conduits, and through orifices and over weirs. The theory and design of water-wheels and turbines are carefully considered. This work is followed up in the Hydraulic Laboratory, which is equipped with a thirty-five-foot stand-pipe, weirs, nozzles, tanks, scales, pipes, turbines, water-wheels, brakes, and the necessary measuring apparatus for conducting careful and thorough experiments in hydraulics.

In Thermo-dynamics, a careful study is made of the properties of gases and vapors, especially of steam, the flow of steam and gases, the theory of the injector and hot-air engine. Considerable time is devoted to temperature, entropy, diagrams of heat and steam-engines. This is followed by a study of compound and triple expansion engines and Hirn's analysis of the steam-engine.

In Mill Engineering, detailed attention is paid to location of plant, arrangement of machinery, power transmission, construction of building, sanitation, lighting, heating, fire protection, time system, records of drawings, records of patterns, cost system, and general shop management.

In Electrical Machinery, careful attention is given to the theory and design of standard generators and motors, to the calculations of wiring for light and power transmission, and to the accessories of a complete and economic electrical plant.

In the Laboratory, the student is required to verify the theories and results given him in the lecture room, to observe the various phenomena that occur, and to make personal investigations. First, a thorough course in strength of engineering materials is given, involving the use of the 100,000-pound Riehlé automatic and autographic

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testing machine, with the extensometer and the compressometer (this machine is arranged for tension, compression, crushing and shearing); and the use of the 60,000 inch pounds Olsen torsion machine; the 2,000 pounds Riehlé cement testing machine. Following this, in the Electrical Laboratory the student is taught the use of the standard electrical measuring instruments, the determination of the various curves peculiar to the several types of generators and motors, the installation of electrical power plants, the actual use and care of generators and motors for light and power transmission.

Finally, in the Mechanical Laboratory, the following work is carried on for efficiency tests on boilers, engines and machines; calorimetric tests for the quality of steam; valve-setting by aid of the indicator; steam-engine erection and alignment; tests of various steam-using devices; belt transmission; oil tests; pressure tests; coal and gas analyses, calibration of steam gauges and instruments.

The Mechanical Engineering Laboratory is equipped with the following machines, apparatus and instruments:

A Riehlé 100,000-pound autographic and automatic testing machine arranged for tension, compression, cross-breaking and shear; a 1,000-pound pressure pump; a 60,000 inch pounds Olsen torsion machine; a Riehlé oil-testing machine; a Carpenter coal calorimeter; a Carpenter separating calorimeter; a Crosby oil gauge tester; two Ashcroft indicators; a Thompson indicator; a reductor; an Amsler polar planimeter; pyrometers; anemometers; economeiers; vacuum gauges; draft gauges; revolution counters; speed indicators; brakes; traps; injectors; steam separators and reducing valves; tanks; scales; steam thermometers; steam gauges; steam revealer; a 75-horse

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power Wheeler condenser; an 8 x 10 direct connected McEwen high-speed engine; a 6-inch Ericsson hot-air engine; a 4½" x 7" and 2-8" x 13" triple expansion engine built in the University Shops; a duplex pump; a blast fan, exhaust fan, and a 25-horse power vertical experimental boiler. These, together with the equipment of the heating, power and light plant, furnish ample opportunity for thorough and extended work.

The University plant contains two 150-horse power tubular boiler Smith-Hawley down draft furnaces; one horizontal tubular boiler, 150-horse power; one 11 x 14 Buckeye engine; one 9 x 16 Lane & Bodley; three 8 x 12 Houston, Stanwood & Gamble; a two-cylinder 8 x 10 Westinghouse gas-engine; several duplex pumps; one vacuum pump; a Webster system of steam heating; a forced blast system of heating, and a gravity system of steam heating.

The students have the use of full sets of photographs and of working drawings of standard engines and boilers, both stationary and marine; a large and well selected department library.

The department is well supplied with trade catalogues, which may be used in boiler, engine and machine design. In addition to the foregoing, the students have the use of the shops of the Technical School, which has the following equipment:

Carpenter Shop.—Twenty-four cabinet-makers' benches; 24 wood-turning lathes; 3 pattern-makers' iron lathes; 1 rip and cross-cut circular saw; 1 36-inch band saw, together with bench and lathe tools.

Blacksmith Shop.—Twenty-six down-draft forges; 26

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anvils; 12 vises; 1 blower; 1 exhaust fan; 1 drill-press; 4 work-benches, together with the necessary forge and anvil tools.

Machine Shop.—One engine lathe, 20-inch swing, 5-foot bed; 7 engine lathes, 14-inch swing, 5-foot bed; 1 engine lathe, 17-inch swing, 8-foot bed; 1 Brown & Sharp speed lathe; 1 Brainard milling machine; 1 26-inch Lodge & Davis drill press; 1 26″ x 26″ x 7-foot Gray planer; 1 14″ and 2 16″ shaper; 1 Slate sensitive drill; 1 diamond wet emery grinder; 1 Washburn twist drill grinder; 6 14-foot double benches, with 12 vises, together with the necessary chucks, boring bars, taps, dies, reamers and machine tools.

MECHANICAL ENGINEERING.

The Freshman year is the same as in the Civil Engineering Course.

SOPHOMORE YEAR.

SUBJECT.	COURSE.	I. Term	II. Term	III. Term
Calculus	Mathematics 5	4	4	4
Physics	Physics 1 *a*, *b*, *c*	4	4	4
Physics	Physics 2	2	2	2
Drawing	Drawing 2 *a*, *b*, *c*	3	3	3
Shop-work	Shop 2	3	3	3
Shop-work	Shop 3	3	3	3

JUNIOR YEAR.

Mechanics of Engineering	M. E. 1	6	6	6
Steam Engineering	M. E. 3	3	3	3
Link and Valve Diagrams	M. E. 2 *a*	3		
Kinematics	M. E. 2 *b*, *c*		3	3
Machine Design	M. E. 4 *a*, *b*, *c*	3	3	3
Mathematical Theory of Electricity and Electrical Machinery	E. E. 1 *a*, *b*, *c*	3	3	3

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SENIOR YEAR.

SUBJECT.	COURSE.	I. Term	II. Term	III. Term
Steam Engine Design	M. E. 5	3	3	3
Hydraulics	C. E. 5	3	3	3
Thermodynamics	M. E. 6 *a*	3		
Mill Engineering	M. E. 6 *c*			3
Steam Heating and Ventilation	M. E. 6 *b*		3	
Electrical Engineering	E. E. 4	3	3	3
Engineering Laboratory	M. E. 7	3	3	3
Framed Structures	C. E. 9 *a*, *b*, *c*	3	3	3

COURSES IN DETAIL.

MECHANICAL ENGINEERING.

1. Mechanics of Engineering.—Statics, dynamics, strength of materials, graphical statics. Detail analysis of roofs and bridges.

2 *a*. Link and Valve Diagrams.

2 *b*, *c*. Kinematics of Machinery.—The principles of mechanisms, belting, toothed gears, cams and linkages.

3. Steam Engineering.—Elements of thermodynamics, theory of steam engine, types of engines, indicator practice, valve setting, valve diagrams, boiler chimneys, boiler design, and installation of boiler and power plants.

4. Machine Design.—Machine Drawing, study of the principles and design of the details of machines.

5. Steam Engine Design.—Complete design of high grade engine.

6 *a*. Thermodynamics.—Application of thermodynamics to steam and other heat engines.

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6 *c*. Mill Engineering.

6 *b*. Steam Heating and Ventilation.

7. Engineering Laboratory.—Standardization of instruments; testing of engineering material in tension, compression, cross-breaking and twisting; lining up, erecting and adjusting of engine; indicator practice; valve setting; the testing of gas, steam engine and boiler for efficiency; the measurement of flow of water through weirs, nozzles and pipes.

SHOPWORK.

1. Wood-work.—The course begins with a series of exercises in wood-work, each one of which is designed to give the student familiarity in the use of the ordinary wood-working tools. These elementary exercises in carpentery and joinery are followed by exercises in wood-turning and pattern-making. Time permitting, some small framed structure in wood, and patterns of machine parts are made.

2. Forging.—It is intended that this course shall give the student not only a working knowledge of the methods used in forging, but also the skill required in the handling of the ordinary blacksmiths' tools.

3. Machine Work.—The course begins with a series of graded exercises, bringing into use the various machine tools, after the completion of which some mechanical device, machine, or motor is constructed by the class.

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DRAWING.

1 *a, b.* Descriptive Geometry.—Orthographic, isometric and oblique projections; intersections; tangencies and developments.

1 *c.* Perspective Drawing.—Elements of perspective, shades and shadows, complete ink rendering of some machine or structure.

2 *a.* Free-hand Drawing.—Free-hand production of objects with pencil, charcoal and pen. Free-hand lettering.

2 *b.* Construction Drawing.—The details of masonry, piers, arches, walls, foundations, iron and wood structures.

2 *c.* Machine Drawing.—Elements of machine drawing, tracing, blue printing, brush and line shading, tinting. Machine and structural parts are carefully measured and detail drawings are made.

Photography.—The physics and chemistry of photography, exposing and developing.

THE TECHNICAL SCHOOL.

By an agreement made in June, 1901, between the Board of Directors of the University of Cincinnati and the Board of Trustees of the Technical School of Cincinnati, a manual training school, established in 1886, with its charter, property and good will, was transferred to the Board of Directors of the University, in trust forever. In consideration of this gift, the Board of Directors of the University agreed to conduct the school thereafter as the Technical School of the College of Engineering. In order to enable the Board of Directors to carry out this agree-

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ment, the Board of Trustees of the Technical School raised twenty-five thousand dollars to construct a suitable building in Burnet Woods Park, on the grounds of the University.

ELECTRICAL ENGINEERING.

This course is intended to prepare young men for the pursuit of Electrical Engineering as a profession. The work of the course is based upon a preliminary foundation of mechanical engineering studies. In the Junior and Senior years the student specializes in his work in the department of Electrical Engineering, by thoroughly studying the subject from both the theoretical and the practical standpoints. The graduate from this course is thus fitted to enter any line of work in the field of Electrical Engineering.

The special equipment for practical work and experimental research in the Engineering laboratories of the University, together with the opportunity for inspecting electrical installations of all kinds in and near the city of Cincinnati, affords unexcelled means for instruction in the practical applications of Electrical Engineering to commercial purposes.

In the Junior year a course in electricity and magnetism is taken up, and the time devoted to these subjects is divided equally between lecture and text-book work, and laboratory practice.

In the first term the lectures deal with the theory of the potential, Newtonian forces, permanent magnets, magnetic shells, induced magnetism and hysteresis. The laboratory work consists of the determination of electric

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quantity with the ballistic galvanometer and the accurate measurement and calibration of resistances. The student is familiarized with the characteristics of different types of galvanometers, and with the construction and use of standard resistances.

The lectures in the second term are devoted to the phenomena of electrostatics, the laws of the electric current, and of electromagnetism. The laboratory work covers measurements of electrostatic capacity, and the study of the magnetic properties of iron and steel, including the determination of the hysteresis curve.

The third term is devoted to the theory of electromagnetic induction, and periodic currents. In the laboratory, particular attention is paid to the measurement of co-efficients of induction, the properties of alternating currents and photometry.

Gerard, "Electricity and Magnetism," is used as a text-book, and J. J. Thomson, "Electricity and Magnetism," Nipher, "Electricity and Magnetism," and Ewing, "Magnetic Induction in Iron," are used for reference.

In the laboratory the reference books are: Stewart and Gee, "Elementary Practical Physics"; Gray, "Absolute Measurements," and Henderson, "Practical Electricity and Magnetism."

The greater part of the course in Mathematical Theory of Electricity and Electrical Machinery of the Junior year is devoted to the direct current theory and its application. After a thorough grounding in theory, the student spends his time in the laboratory and in the shops in solving practical problems, such as the calculation of the wiring of distribution systems and the designing of electro magnets.

The text-books used are Nichols and Franklin, "Elec-

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tricity and Magnetism"; Abbott, "Electrical Transmission."

Having completed these two courses, the student should be able to solve simple electrical problems such as those involved in the construction and operation of standard apparatus. He should also have obtained a good idea of the practical side of the subject.

During the Senior year all but three hours are devoted to the practical studies in Electrical Engineering. The courses include the theory of alternating currents, the design of direct and alternating current apparatus and power plants, electrical laboratory practice, and a detailed study of the most important commercial branches of the subject.

The text-books in the Senior courses are Thompson, "Dynamo-Electric Machinery"; Jackson, "Alternating Currents and Alternating Current Machinery"; Franklin and Williamson, "Alternating Currents."

The books of reference are Parshall and Hobart, "Electric Generators"; "Transactions of the American Institute of Electrical Engineers"; Sheldon, "Dynamo-Electric Machinery," "Electric Power Transmission," etc.

The student is also required to use the technical magazines, of which there are several complete sets in the reference room of the Library, where also may be found the current numbers of the more important journals.

The laboratory facilities in Electrical Engineering consist of a dynamo laboratory, a standardizing laboratory, and the use of the electrical lighting and power plant of the University for testing purposes. The electrical plant is a large and complete one; all of the buildings are illuminated by electricity, and in addition there are several electric

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motors installed under commercial conditions, operating elevators, lathes, printing machinery, etc., which are available for making efficiency tests as well as other desired tests.

The shops of the Engineering Department are available for the repair and construction of electrical apparatus. The Dynamo Laboratory equipment consists of a number of different types of direct and alternating current machines, as follows: One Edison bipolar, 125 volt 45 kilowatts, 2 Triumph multipolar generators, 125 volt 17.5 kilowatts and 125 volt 15 kilowatts capacity, respectively, both fitted with alternating collector rings for single, two and three phase currents; 1 bipolar, 110 volt 8 kilowatts; 1 3-horse power, 220 volt, three phase induction motor; 1 experimental induction motor with two types of armature; 1 three-phase rotary converter, 7.5 kilowatts; 4 direct current motors of 5 and 3-horse power size.

The Electrical Laboratory has a full equipment of arc lamps of different types, incandescent lamps, and the means of making photometric tests of the same.

The following is a list of instruments used by the students in the different laboratories. They are arranged under the makers' names.

Messrs. Elliott Bros., London:
- Standard 1 ohm, B.A. unit.
- Standard capacity, ½ microfarad.
- Low resistance galvanometer.
- High resistance astatic galvanometer.
- 2 resistance boxes, Wheatstone bridge type.
- Helmholtz standard tangent galvanometer.

James White, Glasgow:
- Kelvin multicellular voltmeter.

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Kelvin deka-ampere balance.
Kelvin centi-ampere balance.

Messrs. Morris E. Leeds & Co., Philadelphia:
Rowland-Darsonval galvanometer.
3 resistance boxes, 5—400 ohms.
4 resistance boxes, Wheatstone bridge type.

Messrs. Queen & Co., Philadelphia:
Standard cell, Carhart-Clark.
Resistance box, Wheatstone bridge type.
Darsonval galvanometer.
Resistance box, 10,000 to 100,000 ohms.

Weston Electrical Instrument Co.:
Direct reading ammeter, range 5 amperes.
Direct reading ammeter, range 15 amperes.
Direct reading ammeter, range 25 amperes.
Direct reading ammeter, range 500 amperes.
Direct reading mil-ammeter, range 1 ampere.
Direct reading mil-voltmeter, range 1.5 volts.
2 direct reading voltmeters, range upper scale 150 volts.
2 direct reading voltmeters, range lower scale 15 volts.
Direct reading alternating and direct current voltmeter, range upper scale 150 volts.
Direct reading alternating and direct current voltmeter, range lower scale 75 volts.
Portable watt-meter, upper scale 7,500 watts.
Portable watt-meter, lower scale 3,750 watts.
Several round dial voltmeters and ammeters.

General Electric Co.:
Thomson alternating ammeter, 50 amperes.

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Thomson alternating ammeter, 15 amperes.
Thomson alternating ammeter, 2 amperes.
Thomson indicating wattmeter, 15 hektowatts.
Thomson indicating wattmeter, 150 watts.

Messrs. Siemens Bros., London:
Siemens dynamometer.

Messrs. Nalder Bros. & Co., London:
Bird-cage quadrant electrometer.
Shaefer & Budenberg tachometer.
5 Thomson astatic galvanometers.
Lummer-Brodhun photometer.
Busen photometer.
Bismuth spiral for measuring magnetic fields.
Earth inductor.
2 Stanley condensers, about 2.5 microfarads apiece.
Box of variable inductance.
Box of variable capacities.

The Standardizing Laboratory has a complete set of instruments for calibrating and standardizing all kinds of electrical measuring instruments used commercially.

The equipment consists of standard Clark cell and Weston standard cadium cells; standard silver voltmeter, Leeds potentiometer, accuracy 1-50 of 1 per cent.; Leeds Wheatstone bridge, accuracy 1-25 of 1 per cent.; standard resistances, 1 ohm, 10 ohms, 1-10 ohm, 1-1,000 ohm of guaranteed accuracy; direct current laboratory standard voltmeter, 1.5-75-750 volts, and ammeters up to 600 amperes capacity; alternating voltmeters up to 1500 volts, and ammeters up to 100 amperes.

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ELECTRICAL ENGINEERING.

The Freshman and Sophomore years are the same as in the Mechanical Engineering Course.

JUNIOR YEAR.

SUBJECT.	ORDER OF COURSE.	I. Term	II. Term	III. Term
Mechanics of Engineering.	M. E. 1	6	6	6
Electricity and Magnetism.	Physics 5	4	4	4
Mathematical Theory of Electricity and Electrical Machinery	E. E. 1	3	3	3
Machine Design	M. E. 4 *a*, *b*, *c*	3	3	3
Mathematics	Math. 6 *a*, 7 *b*, *c*	3	3	3

SENIOR YEAR.

Steam Engineering	M. E. 3	3	3	3
Design of Electrical Machinery	E. E. 2	3	3	3
Alternating Currents	E. E. 3	3	3	3
Electrical Engineering	E. E. 4	3	3	3
Engineering Laboratory	E. E. 5	3	3	3
Hydraulics	C. E. 8 *c*			3
Electrical Construction	E. E. 7 *a*, *b*	3	3	

COURSES IN DETAIL.

ELECTRICAL ENGINEERING.

1. Mathematical Theory of Electricity and Electrical Machinery.—A study of the theory of electricity and its application to the construction and operation of continuous current generators and motors, electrical instruments, etc.
2. Electrical Design.—Complete design of electrical generators, motors, transformers, and installation of electrical power plants.
3. Alternating Currents.—A study of the alternating current phenomena, the theory of alternating currents, single and multiphase generators, motors and transformers.
4. Electrical Engineering.—A detailed study of power, railway, lighting and power-transmission plants as to installation and economic operation.

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5. Engineering Laboratory.—The test of engineering materials in tension, compression and cross-breaking. The flow of water through weirs, nozzles and pipes. Testing of direct and alternating current apparatus —generators, motors, transformers, incandescent and arc lamps, storage batteries, etc. Calibration of ammeters, voltmeters, wattmeters, etc.

6 *c*. Electrical Power and Railway.–Lectures and laboratory on the industrial application of electricity. This course is open to students who have taken 5 *a*, *b*.

7 *a*, *b*. Electrical Construction.—Wiring, construction and erection of electrical machinery.

CHEMICAL ENGINEERING.

The course in Chemical Engineering is designed for students desiring to follow industrial chemistry as a profession, and is equally well adapted to the needs of students of Mechanical Engineering who desire to fit themselves for positions having to deal with problems of construction and operation of manufacturing plants dependent wholly or in part upon chemistry.

The general engineering subjects coincide, for the most part, with those in the course in Mechanical Engineering —a portion of the shop-work being replaced by laboratory work in chemistry.

The instruction in Technical Chemistry (Chemistry 11) is arranged with reference to this course, and attention is directed towards the modern forms of machinery and methods of operating them in various manufacturing processes, the chemical principles involved being taught at the same time.

The instruction in the Engineering Laboratory, while embracing most of the work done by the students of

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Mechanical Engineering, is made to include studies in calorimetry and in the metallography of iron and steel and certain alloys, such as brass and bronze.

CHEMICAL ENGINEERING.

The Freshman year is the same as in the Civil Engineering Course.

SOPHOMORE YEAR.

SUBJECT.	COURSE.	I. Term	II. Term	III. Term
Calculus	Mathematics 5	4	4	4
Physics	Physics 1 *a*, *b*, *c*	4	4	4
Physics	Physics 2	2	2	2
Drawing	Drawing 2 *a*, *b*, *c*	3	3	3
Shop-work	Shop 2	3	3	3
Quantitative Analysis	Chemistry 6	3	3	3

JUNIOR YEAR.

Mechanics of Engineering	M. E.	6	6	6
Steam Engineering	M. E. 3	3	3	3
Civil Engineering	C. E. 6 *a*, *b*	3	3	
Chemistry	Chemistry 11	3	3	3
Technical Chemical Laboratory	Chemistry 12 *a*, *b*, *c*	3	3	3
Mill Engineering	M. E. 6 *c*			3

SENIOR YEAR.

Advanced Organic Chemistry	Chemistry 13	3	3	3
Chemical Laboratory	Chemistry 14	3	3	3
Engineering Laboratory	M. E. 7	3	3	3
Thermodynamics	M. E. 6 *a*	3		
Machine Design	M. E. 4 *b*, *c*		3	3
Mathematical Theory of Electricity and Electrical Machinery	E. E. 1	3	3	3
Kinematics	M. E. 2 *b*, *c*		3	3

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COURSES IN DETAIL.

CHEMICAL ENGINEERING.

1 *a, b.* General Inorganic Chemistry.—Descriptive and experimental lectures and recitations. Text-book for collateral study: Remsen's College Chemistry. The course includes the more important experiments in connection with the study of the non-metals and metals. Ample use is made of charts and specimens. Tu., Th., S., 10:30-11:30. Professor EVANS.

2 *a.* General Inorganic Chemistry, Laboratory.—A series of two hundred experiments, illustrative of every department of Inorganic Chemistry. Quizzes are held at regular intervals. M., W., 1:30-4:30, or Tu., Th., 1:30-4:30. Dr. SNELL and Mr. FRY.

3 *b, c.* Qualitative Analysis.—Lectures and recitations. One lecture a week during the second term, and two during the third term. M., W., 8:30-9:30. Dr. SNELL.

Course 3 is open to students who are taking, or have passed in, Courses 1 and 2.

4 *b, c.* Qualitative Analysis, Laboratory.—This course must accompany Course 3, and embraces a thorough training in the qualitative examination of salts, minerals and chemical products. One exercise a week during the second term, and two during the third. M., W., 1:30-4:30. Dr. SNELL and Mr. FRY.

5 *c.* Theoretical Chemistry, Lectures.—An elementary course, embracing a brief discussion of thermo-

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chemistry, the phase rule, chemical equilibrium, the velocity of reactions, and the theory of solutions. F., 8:30-9:30. Dr. SNELL.

6. Quantitative Analysis, Laboratory.—An elementary course in gravimetric and volumetric analysis of chemicals, ores, minerals, alloys, etc. Three times a week, 1:30-4:30. Mr. FRY.

11 *a*. Technical Chemistry (Metallurgy).—This course consists of three lectures a week, and deals with the mechanical appliances used in chemical industries, with fuels, water and metallurgy. The lectures are fully illustrated by charts and specimens. Occasional visits are made to manufacturing establishments in Cincinnati and its vicinity. M., W., F., 10:30-11-30. Professor EVANS.

11 *b, c*.—Technical Chemistry.—This course supplements Course 1 *a*, and consists of two lectures and one class exercise a week. The method of instruction is the same as in Course 1 *a*, Industrial Chemistry proper being the subject of study. M., W., F., 10:30-11:30. Professor EVANS.

12. Technical Chemistry, Laboratory.—*a*. The analysis of various chemical and metallurgical raw materials and products, water and fuels. A special course for engineers will be given during this term. *b*. The analysis of fertilizers, foods, soaps, rare or complex minerals, etc. *c*. The preparation of pure chemicals from raw materials, and such other manufacturing operations as can be simulated on a small scale. M., Th., F., 1:30-4:30. Professor EVANS.

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13. Advanced Organic Chemistry.—Lectures, embracing a systematic study of the principles and practice of Organic Chemistry, and treating of the constitution, properties and mode of formation of the more important members of each class of organic compounds. Tu., Th., S., 9:30-10:30. Professor EVANS.

14. Organic Chemistry, Laboratory.—Practice in ultimate analysis, molecular weight determinations and the preparation of a number of typical organic compounds. M., W., F., 1:30-4:30. Professor EVANS.

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FACULTY OF THE MEDICAL DEPARTMENT.

HOWARD AYERS, Ph. D., LL.D., President.

* W. W. SEELY, A. M., M. D. ....S. E. Cor. Fourth and Broadway
Professor of Clinical Ophthalmology and Otology.

P. S. CONNER, M. D., LL. D., *Dean*.....215 W. Ninth
Professor of the Practice of Surgery and Clinical Surgery.

SAMUEL NICKLES, M. D. .....1406 John
Emeritus Professor of Materia Medica and Therapeutics.

THAD. A. REAMY, M. D., LL. D. .....619 Oak
Professor of Clinical Gynæcology.

CHAUNCEY D. PALMER, M. D.....Main and Forest Aves., Avondale
Professor of Gynæcology and Clinical Gynæcology.

FREDERICK FORCHHEIMER, M. D.....S. E. Cor. Fourth and Sycamore
Professor of Theory and Practice of Medicine and Clinical Medicine.

JOSEPH RANSOHOFF, M. D., F. R. C. S.....706-708 Walnut
Professor of the Principles of Surgery and Clinical Surgery.

JAMES G. HYNDMAN, M. D., Secretary.....22 West Ninth
Professor of Laryngology.

B. K. RACHFORD, M. D. .....323 Broadway
Professor of Diseases of Children.

ALLYN C. POOLE, A. M., M. D.....2906 Woodburn Avenue
Professor of Materia Medica and Therapeutics.

E. GUSTAV ZINKE, M. D. .....13 West Eighth
Professor of Obstetrics and Clinical Midwifery.

AUGUST RAVOGLI, A. M., M. D. .....5 Garfield Place
Professor of Dermatology and Syphilology.

STEPHEN C. AYRES, A. M., M. D. .....4 West Seventh
Professor of Ophthalmology and Otology.

ALBERT V. PHELPS, M. D. .....510 West Seventh
Professor of Anatomy and Demonstrator of Anatomy.

CHARLES L. BONIFIELD, M. D. .....N. E. Cor. Fourth and John
Professor of Clinical Gynæcology.

WILLIAM H. CRANE, B. S., M. D. .....20 West Ninth
Professor of Medical Chemistry and Demonstrator of Chemistry.

BROOKS F. BEEBE, M. D. .....408 Broadway
Professor of Mental Diseases.

HORACE J. WHITACRE, M. D.....2120 Auburn Ave.
Professor of Pathology.

WILLIAM MUEHLBERG, M. D. .....5 Garfield Place
Professor of Physiology.

* Deceased.

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CHARLES A. L. REED, M. D. .....The Groton
Professor of Clinical Gynæcology.
CHARLES SETH EVANS, B. S., M. D. .....5 Garfield Place
Professor of Genito-Urinary Diseases.
ALBERT H. FREIBERG, M. D. .....706 Walnut
Professor of Orthopedic Surgery.
ROBERT CAROTHERS, M. D. .....413 Broadway
Adjunct Professor of Surgery.
JAMES WILLIAM ROWE, A. B., M. D. .....20 West Ninth
Adjunct Professor of Obstetrics and Demonstrator of Histology.

LECTURERS AND DEMONSTRATORS.

.....Lecturer on Medical Jurisprudence.
JAMES M. FRENCH, A. M., M. D., Lecturer on Medicine.
PHILIP ZENNER, A. M., M. D.; H. H. HOPPE, A. M., M. D., Lecturers on Neurology.
OTIS L. CAMERON, M. D., Demonstrator of Bacteriology.
J. E. GREIWE, A. B., M. D., Lecturer on Physical Diagnosis and Clinical Medicine.
R. W. C. FRANCIS, A. B., M. D., Demonstrator of Comparative Anatomy.
A. G. DRURY, A. M., M. D., Lecturer on Hygiene.
ALLAN RAMSEY, B. S., M. D., Demonstrator of Clinical Microscopy and Assistant to the Chair of Practice.
C. M. PAUL, M. D., Demonstrator of Surgery.
A. STARR FORD, M. D., Lecturer on Physiological Therapeutics.

ASSISTANTS AND CLINICIANS.

WALTER FORCHHEIMER, A. B., M. D., Clinician in Ophthalmic Department.
GEORGE E. MALSBARY, M. D., Assistant to the Chair of Practice.
JOHN MILLER, M. D., Assistant to the Chair of Clinical Gynæcology.
E. O. SMITH, M. D., Chief Assistant Demonstrator of Anatomy.
W. E. SAVAGE, M. D., Assistant Demonstrator of Anatomy.
WILLIAM LIST, M. D., Assistant Demonstrator of Anatomy.
MARION WHITACRE, M. D., Assistant Demonstrator of Pathology.
CARL HILLER, M. D., Assistant to the Chair of Principles of Surgery.

STAFF OF THE COLLEGE DISPENSARY.

Eye and Ear Department: WALTER FORCHHEIMER, M. D.; W. MCL. AYRES, B. A., M. D.
Medical Department: PROF. W. H. CRANE, M. D.; T. W. HAYS, M. D.; MAX KOEHLER, M. D.

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Gynaecological Department: Prof. C. L. Bonifield, M. D.; E. S. McKee, M. D.; C. G. Spiedel, M. D.
Children's Department: F. H. Southgate, M. D.; J. E. Greiwe, M. D.; D. Webb, M. D.
Surgical Department: Prof. Robert Carothers, M. D.; Dr. Carl Hiller, M. D.; Prof. H. J. Whitacre, M. D.
Throat Department: Prof. James G. Hyndman, M. D.; S. Iglauer, M. D., Assistant.
Nervous Department: Philip Zenner, M. D.; H. H. Hoppe, M. D.
Skin Department: Prof. A. Ravogli, M. D.; Elmore B. Tauber, M. D.
Orthopedic Department: Prof. A. H. Freiberg, M. D.; Chas. R. McClure, M. D., Assistant.
Genito-Urinary Department: Prof. Chas. S. Evans, M. D.
Obstetrical Department: Prof. E. Gustav Zinke, M. D.; Prof. James W. Rowe, M. D.
District Associates: James S. Corbett, M. D.; P. W. Good, M. D.; H. C. Robinson, M. D.; Henry Buschman, M. D.; W. B. Young, M. D.

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CHARTER AND ORGANIZATION.

The charter of the Medical College of Ohio was granted by the Legislature of Ohio in 1819. This institution is, therefore, much the senior of any medical college west of the Alleghenies. Annual courses of lectures have been delivered by the Faculty with unvarying regularity during the eighty-four years of the existence of the school. With the beginning of the session of 1895-96, attendance upon four annual courses of lectures was required; the entire system was carefully graded, and more detailed, direct, and vigilant supervision was brought to bear upon the individual student. In 1896 its Board of Trustees transferred its charter to the Board of Directors of the University of Cincinnati, thus constituting it the Medical Department of the University, though still retaining its original conjointly with its new title.

SESSION OF 1903–1904.

The eighty-fifth annual session opened September 24, 1903, and will continue eight months.

BUILDINGS.

The college is located on the McMicken homestead lot, on McMicken Avenue, at the head of Elm Street. This lot has a frontage of three hundred feet, extending back about the same distance to Clifton Avenue. The Lecture and Laboratory building is four stories above the basement, which is itself above ground level, and is constructed of cut stone and brick, with iron stairways and internal finish of the most substantial character.

On the basement floor are small lecture or demonstration rooms, students' sitting room, lockers, and the dark room for photographic work. On the first floor are the

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Registrar's office, the Faculty room, museum, and students' reading room. The second floor contains the laboratories of bacteriology, of normal and pathological histology, and of physiology, all thoroughly equipped with modern apparatus. On the third floor are two large lecture rooms, furnished with comfortable opera chairs with tablet arms; a special room for the Rœntgen or X-ray apparatus is also located here. The fourth floor is occupied by a large dissecting room and chemical laboratory. In immediate connection with these is a lecture room for demonstrations in chemistry and anatomy. The surgical laboratory is also located on this floor.

The Dispensary building is a one-story brick structure on the lower extremity of the lot on McMicken Avenue. Its dimensions are 123 by 50 feet. It contains eight small lecture rooms, each with an adjoining waiting room for patients, a dispensing drug room, and a room for necessary chemical and microscopical investigation of the cases daily presenting themselves for treatment.

Although in the center of a densely populated district that affords an immense clinical field, the site of the college building is, nevertheless, upon high ground, commanding a fine view of the greater portion of the city. Ventilation is perfect, and each room is so well lighted as to permit all laboratory work to be done by day, even in cloudy weather, without artificial illumination.

REQUIREMENTS FOR ADMISSION.

Each applicant will present:

1st. Certificates of good moral character signed by two physicians of good standing in the state in which the applicant last resided.

2d. (1) A diploma or certificate of graduation from a recognized high-school, conducting a four-years course; or (2) evidence of having passed the matriculation examination to a recognized literary or scientific college; (3) a teacher's permanent or life certificate; or (4) a certificate of having successfully passed the medical student's examination conducted by the examiner appointed by the State Board of Medical Registration and Examination.

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The nature and extent of this examination in Ohio is as follows:

Foreign Languages—Two years of the Latin language.

English—English Literature, Composition and Rhetoric.

History—United States History and Civics with reference to the constitutional phases of American History.

Mathematics—Algebra through equations and plane Geometry.

Science—Botany or Zoology, Physiography or Chemistry, and Physics,

CREDENTIALS MUST BE SUBMITTED TO CERTIFIED EXAMINERS OF THE BOARD.

Every medical student in order to comply with the law regulating the practice of medicine in the State of Ohio, shall, before entering a medical college in the State of Ohio, be required to submit his or her credentials for admission to medical college, to one of the certified examiners of the State Board of Medical Registration and Examination. If said certified examiner shall find that the entrance credentials comply with the provisions of Section 4403*c* of the law regulating the practice of medicine in Ohio, passed April 14, 1900, and the rules of the State Board of Medical Registration and Examination, he shall issue his certificate to that effect. In case a student does not possess the credentials required by Section 4403*c* of the law regulating the practice of medicine in Ohio, passed April 14, 1900, he shall submit to an examination before said examiner in accordance with the provisions of Section 4403*c* of the law regulating the practice of medicine in Ohio, passed April 14, 1900, and the rules of the State Board of Medical Registration and Examination, and if this examination is satisfactory, the examiner shall issue his certificate to that effect.

Applicants failing to obtain a general average of 75 per cent., and falling below 55 per cent. in but two branches, may be conditioned in such branches, which condition must be removed before the beginning of the second year in medical college.

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PLAN OF INSTRUCTION.

FIRST YEAR.—The plan of study arranged by the Faculty for the first of the four years of college work is as follows: Anatomy, three lectures and three recitations a week. Physiology, three lectures and one recitation a week, with work in Physiological Laboratory after January 20th. One lecture per week will be given during second half of session on Embryology. One hour a week is devoted to recitation work in Materia Medica. Chemistry, two lectures and two recitations a week. Two hours a day will be devoted to dissections (for half the session). Six weeks of laboratory work (two hours a day) will be required in the Elementary Chemical, three weeks in Comparative Anatomy, seven weeks in the Histological department and six weeks in the Bacteriological laboratory.

SECOND YEAR.—Anatomy, three lectures and two recitations a week; one course of dissection. Physiological Chemistry, one lecture and one recitation a week; sixty hours Physiological Chemical Laboratory. Physiology, three lectures a week. Materia Medica, two lectures and one recitation a week. Pathology, two lectures and one recitation a week; sixty hours' laboratory work in Pathological laboratory; Hygiene, one lecture a week, first half of session. Principles of Surgery (recitation), three lessons a week, latter half of session.

THIRD YEAR.—Regional Anatomy, three lectures and one recitation; Medicine, two lectures and one recitation; Surgery, two lectures and one recitation; Obstetrics, two lectures and one recitation; Therapeutics, one lecture, one recitation; Physical Diagnosis, one lecture; Medical, Surgical, and Gynæcological Clinics, City and Good Samaritan Hospitals and College Clinics.

FOURTH YEAR.—Medicine, two lectures; Surgery, two lectures; Diseases of Children, one lecture; Gynæcology, one lecture; Ophthalmology and Otology, one lecture; Laryngology and Rhinology, one lecture; Neurology, one lecture;

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Dermatology and Syphilology, one lecture; Mental Diseases, one lecture (alternate weeks); Genito-Urinary Diseases, one lecture; Surgical Laboratory, one hour; Orthopœdics, one lecture a week (first half of session; Medical Jurisprudence, one lecture (one-third session). Clinical Microscopy, one demonstration; City Hospital Clinics, two hours daily; Good Samaritan Hospital Clinics, two half days per week; Dispensary Clinics, one hour daily.

At the close of each session every student must be examined on all the subjects taught during his year, and should the result in any branch fail to be satisfactory, he will be expected to stand a satisfactory re-examination at the opening of the next session (not later than November 1) before being permitted to continue the following year's work.

MEANS OF ILLUSTRATION.

The Museum is in constant receipt of numerous and important additions in Normal, Pathological, and Comparative Anatomy. Preparations of every kind which can in any way contribute to the illustration of the various departments of instruction are annually added by the Faculty. The student can nowhere find coarse and miscroscopic anatomy made so clear and instructive as in the Medical College of Ohio. In addition to the ample material for illustrating the lectures possessed by the College, the individual members of the Faculty are provided with instruments, drawings, casts, and preparations in great abundance.

The bone circulating library of the College enables each student, while on the subject of Osteology, to have the specimen before him.

ANATOMY.

PROF. PHELPS.

FRESHMEN.—Early in the session, a course in Cat dissection of three weeks' duration, conducted by Dr. R. W. C. Francis.

Laboratory of Normal Histology, 84 hours. Demonstrator, Prof. James W. Rowe.

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Human dissection, 72 hours; directed and demonstrated by Prof. Phelps, assisted by Dr. E. O. Smith. Three lectures weekly upon bones, joints, muscles and fasciae. Prof. Phelps. Two recitations weekly upon assigned lessons. Dr. W. E. Savage.

Lectures and recitations are largely demonstrative, dry and wet preparations being used. In preparing for the recitations, in which much attention is given to the bones individually, the students are advised to obtain bones from the bone library. Apply to Dr. Savage, who will require a deposit to insure the safe return of the specimens.

SOPHOMORES. — Human dissection, 72 hours. Prof. Phelps and Dr. E. O. Smith. Descriptive Anatomy, three lectures weekly, considering the brain and cord, the cranial nerves; mouth, pharynx, esophagus, all of the abdominal organs and peritoneum; larynx, trachea, all of the thoracic organs and serous membranes. A freshly prepared and dissected cadaver is used for demonstrations, and, in addition, typical fresh and preserved organs are used for the same purpose. Prof. Phelps. Recitations, two hours weekly upon assigned lessons, Dr. E. O. Smith.

JUNIORS. — Three lectures weekly upon Regional or Surgical Anatomy. The entire body is studied and relations are demonstrated by means of a freshly dissected cadaver and also by using preserved wet dissections. These demonstrations, as well as those of the second and first years, are made to groups of threes or fours; thus being demonstrations in fact. Prof. Phelps. One recitation weekly upon assigned lessons. Dr. Wm. List.

CHEMISTRY.

PROF. CRANE.

The work in Chemistry consists of lectures and recitations extending through the first two years, supplemented by illustrative laboratory courses.

During the first year there are two lectures a week and two recitations. The greater part of the course is devoted to Elementary Chemistry, with special attention to facts bearing upon the science of medicine. A brief course in

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Organic Chemistry is given during the second term. The lectures are illustrated as fully as possible by descriptive experiments. The laboratory work covers the reactions of the commoner acids and bases as an introduction to work in qualitative analysis.

In the second year there is one lecture a week and one recitation. The course supplements the lectures in Physiology and embraces a study of the foodstuffs and the chemistry of the body.

The modern methods of clinical diagnosis are described as fully as possible, with illustratible demonstrations. Special effort is made to present the subject in such a way that it will have a practical bearing upon clinical work. In the laboratory course the experiments follow the lectures and demonstrations.

PHYSIOLOGY.

PROF. MÜHLBERG.

Physiology is taught during the first two years of the college course. Both the didactic and the laboratory methods are employed. During his first year the student listens to the didactic lectures, which are delivered three times a week and which cover the entire subject. During his second year he hears the same lectures. By this plan he is enabled to grasp those phases of the science which he failed to comprehend during his first year on account of his insufficient knowledge of anatomy and chemistry.

This repetition also enables those students who enter the Sophomore Class on advanced standing to hear the entire course of lectures.

The laboratory instruction is considered an essential part of the teaching. About seven weeks are devoted to physiological physics, and experiments on nerve-muscle circulation, respiration, blood and the central nervous system, are performed by the student himself.

The laboratory is well fitted out with the most modern apparatus. Throughout the course, demonstrations, involving technique too difficult for the student to master, are given by the instructor.

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This laboratory work which is given during the freshman year is supplemented by laboratory instruction in physiological chemistry during the sophomore year.

In this manner the whole field of Physiology is covered by the laboratory method.

MATERIA MEDICA AND THERAPEUTICS.

PROF. POOLE.

In the first year one hour per week will be devoted to Pharmacognosy. The course will consist of recitations and practical demonstrations, and will be given by Dr. Ford.

In the second year Prof. Poole will give two lectures per week on Pharmacology, and Dr. Ford one recitation a week.

In this course the action and dosage of drugs are particularly emphasized and their therapeutic uses noted.

The instruction in the third year consists of one lecture per week on Therapeutics by Prof. Poole, and one lecture per week by Dr. Ford on Physiologic Therapeutics, including Hydrotherapy, Massage, Mineral Springs, Climatology, etc. Frequent practice in prescription writing is also afforded.

PRACTICE OF MEDICINE.

PROF. FORCHHEIMER.

During the third year Prof. Forchheimer lectures once a week on the acute infections, while Drs. Ramsey and Malsbary each conducts a recitation or quiz weekly.

Dr. French lectures weekly on the medical diseases of the abdominal organs, and Dr. Greiwe (one hour weekly) teaches physical diagnosis.

During this and the following year, six hours weekly are devoted to clinical work in the college dispensary, by Prof. Crane, Dr. Koehler and Dr. Hays.

To the Senior Class Prof. Forchheimer lectures didactically, two hours a week, on diseases of the lungs, heart and general metabolism, and delivers one clinical lecture per week, at the Good Samaritan Hospital, to both classes.

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Dr. Greiwe gives daily bedside instruction to Seniors (in classes) at the Good Samaritan Hospital. Dr. Ramsey's laboratory course in clinical microscopy is conducted once a week throughout the session.

SURGERY.

PROFS. CONNER AND RANSOHOFF.

The surgical instruction embraces recitations, operative surgery on the cadaver and bandaging; didactic instruction and quizzing on the principles and practice of surgery, and surgical clinics, dispensary and hospital. Recitations on surgical pathology are held three times a week during the latter half of the second year, under the charge of Dr. Paul. Didactic lectures on the principles of surgery during the third year by Prof. Ransohoff, with one quiz a week conducted by Dr. Hiller; didactic lectures on the practice of surgery twice a week during the fourth year by Prof. Conner, with weekly examinations by Prof. Carothers. An operative course on the cadaver, and bandaging, during the fourth year, under the charge of Dr. Paul. Surgical clinics at the Good Samaritan Hospital are held by Prof Conner throughout the entire session, and by Prof. Ransohoff during one-half the course — open only to third and fourth year students. Surgical clinics at the Cincinnati Hospital during the entire session, Prof. Ransohoff being on duty one-half the time; dispensary clinics at the dispensary building of the college six times a week throughout the entire year, Profs. Whitacre and Carothers and Dr. Hiller alternating in attendance.

OBSTETRICS.

PROF. ZINKE.

During the third year two didactic lectures are delivered weekly by Prof. Zinke on the anatomy of the female organs of generation, the physiology, signs and diseases of pregnancy, diagnosis and management of the pregnant and puerperal states, etc. Prof. Rowe devotes one hour weekly to embryology and recitation work. Bedside instruction

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is given at the Maternity Hospital. In the fourth year every student will personally attend cases of labor furnished by the outdoor obstetric clinic.

PATHOLOGY.

PROF. WHITACRE.

General Pathology is taught didactically twice a week, with one recitation, during the second year, and pathological anatomy is studied practically in the laboratory, where the didactic instruction is more firmly impressed upon the student.

OPHTHALMOLOGY AND OTOLOGY.

PROF. AYRES.

The systematic instruction in this branch occupies one hour weekly during the fourth year, and is supplemented by Prof. Ayres' weekly clinics at the hospital and by the daily clinic at the college dispensary.

DERMATOLOGY AND SYPHILOLOGY.

PROF. RAVOGLI.

The frequency with which the diseases of this department are encountered in practice renders the study exceedingly important. Prof. Ravogli lectures didactically once a week during the fourth year, and, with his assistant, Dr. Tauber, gives practical instruction to the class in sections, three times a week, in the college dispensary.

MENTAL DISEASES.

PROF. BEEBE.

Bi-weekly lectures are given to the Senior Class in which these affections are systematically treated.

GENITO-URINARY DISEASES.

PROF. EVANS.

Instruction is carried on didactically and clinically. In the didactic lectures, injuries and surgical diseases of the kidney, pelvis of the kidney, ureter, bladder, prostate, tes-

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ticles, spermatic cord, penis and urethra, are considered, and the lectures are illustrated by numerous specimens, also by patients from the ambulatory clinic.

Clinical instruction is given daily at the clinic, and the ample material enables students not only to become familiar with this class of diseases, but to also personally treat the cases from the time they enter the clinic until they are discharged.

GYNAECOLOGY.

PROF. PALMER.

Prof. Palmer will deliver the weekly didactic lectures on gynaecology. In this instruction he will cover the entire ground, but limit his remarks purely to the practical matters concerning the medical and surgical diseases of woman, and as related to her body at large. Some lectures will be devoted exclusively to the diseases of the bladder, the rectum and the mammary gland of women. He will also occasionally lecture at the dispensary of the college.

DISEASES OF THE NOSE AND THROAT.

PROF. HYNDMAN.

During the fourth year one didactic lecture a week is given on these diseases, together with three clinics a week at the college dispensary. The class in small sections is given personal instruction by Prof. Hyndman and Dr. Iglauer in the methods of diagnosis, examination, operation and treatment of the large number of cases presenting themselves.

DISEASES OF CHILDREN.

PROF. RACHFORD.

One weekly didactic lecture, in the fourth year, together with hospital lectures and class work in the dispensary, conducted by Drs. Greiwe, Webb and Southgate, familiarizes the student with every phase of this important branch.

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THE CHEMICAL LABORATORY.

The laboratory work is divided into two courses, which are arranged to illustrate the didactic lectures in chemistry.

1. Elementary Chemistry—This course consists of experiments in organic Chemistry, and a preliminary study of the commoner acids and bases. It is intended for those who have had no practical work in the subject.

2. Physiological Chemistry—The work of this course is devoted to the Chemistry of the tissues and secretions. The plan adopted is to review briefly the reaction of the proteids and carbohydrates, and then to study the more important secretions. Practical illustration is given of those methods of clinical diagnosis which require familiarity with chemical manipulation.

The work in the laboratory is preceded by an informal talk or demonstration, and at the end of the term an examination is held upon the subjects covered by the course.

The laboratory work is conducted by Professor W. H. Crane.

HISTOLOGICAL LABORATORY.

The aim of this course is to inculcate a thorough knowledge of minute anatomy, and render the student familiar with laboratory technique. Physiology and Pathology are incomprehensible without a previous course in Histology, and it is therefore placed at the very beginning of the curriculum. The course consists of forty-two exercises of two hours each, including lectures, demonstrations and recitations on each subject. The laboratory is perfect in light and equipment. Microscopes and re-agents are provided. The course is conducted by Prof. Rowe. — Clarkson's Text Book of Histology.

THE PATHOLOGICAL LABORATORY.

In the Laboratory of Pathological Histology each student is given about one hundred carefully selected and stained specimens, which he mounts for study and retains for future reference. These specimens are studied by the aid of the

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projection microscope which throws the specimen to be studied on the screen, while the student is viewing the same specimen under his own microscope. This leaves no room for misinterpretation of any part of the specimen and furthermore the demonstration is uniform to every student. After a study of each specimen the student is required to make an accurate drawing of the lesion and make the necessary notes.

The systematic course opens with a study of degeneration. This is followed by a study of inflammation in the frog's omentum, in the living animal, and in carefully selected sections from man. Tumors are demonstrated from the point of view of differential diagnosis and the evidences of malignancy. The remainder of the course is devoted to a study of the lesions of the viscera as they occur in the various infectious diseases, with especial reference to their relationship to micro-organisms. Each student is furnished with a microscope and reagents.

The laboratory is under the direction of Prof. Horace J. Whitacre, assisted by Dr. Marion Whitacre.

BACTERIOLOGICAL LABORATORY.

The work in this department is entirely practical. The student is supplied with culture tubes, which he inoculates with cultures furnished, thus working with his own set of cultures. The various bacteria are first studied from the cultures, and then in the various pathological conditions produced by them. The stock of cultures has recently been renewed from Berlin, and contains all the important pathogenic bacteria capable of cultivation, and many interesting non-pathogenic varieties. Special attention is given to the application of this branch to the clinical diagnosis of tuberculosis, typhoid fever, diphtheria, and gonorrhœa. Demonstration of the parasites of malarial fever will be given both from the stained and fresh specimens. The laboratory is well equipped as to apparatus and microscopes, and will, as heretofore, be conducted by Dr. O. L. Cameron.

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SURGICAL LABORATORY.

In this department the senior student is given the opportunity to demonstrate upon the living subject those principles set forth in the didactic lectures. The work embraces:

(1) A full course in the treatment of fractures and dislocations, the student applying the various forms of dressing and splints upon living models; (2) a course in bandaging; (3) local and general anæsthesia; (4) mechanical treatment of deformities—Potts' disease (actual cases handled); (5) use of stomach tube, sound, electrodes, etc.; (6) Catheterization, sounding, bladder lavage, tapping, etc.; (7) douching, tamponing, etc.; (8) preparation patients, dressings, instruments for operation; (9) preparation and preservation dressings, ligatures, drains, etc., asepsis and antisepsis; (10) the term ends with a course in operative surgery in which the student, under direction, does minor and major surgery upon the cadaver.

This department is conducted by Dr. Charles M. Paul, Demonstrator of Surgery.

COMPARATIVE ANATOMY.

This course, which is open to the freshman class, is entirely of a practical nature. Here the men are instructed first in the handling of the scalpel, the forceps and other instruments which are used not only in post-mortem work, but in operative procedures later on, and second, they become familiar with the appearance, location and names of the various tissues and organs of the body. As a result of this the student is vastly better qualified to begin the study of human anatomy. The cat is used as the subject in this course mainly because of the many points of close resemblance between it and the human body. The text book used is "A Laboratory Guide for the Dissection of the Cat" by Gorham and Tower. This course is conducted by Dr. R. W. C. Francis.

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THE PHYSIOLOGICAL LABORATORY.

The Physiological Laboratory has been thoroughly equipped with modern apparatus. The physiology of the circulation, respiration, muscle, nerve, central nervous system, etc., will be taught by experiments on animals.

The practical experience which the student derives from these experiments will be of the greatest assistance to him in acquiring an accurate knowledge of the physiology of the human body.

The laboratory will be conducted by Professor William Muehlberg during the latter half of the student's first year.

LABORATORY OF CLINICAL MICROSCOPY.

In the course for the senior class in Clinical Microscopy, conducted by Dr. Ramsey, are taken up those subjects which are of greatest importance in the matter of microscopic diagnosis.

The early part of the demonstrations is devoted to microscopic examinations of the blood, including the blood count, the differential count, the characteristics of anæmia, chlorosis, leucocytosis, leukaemia, pernicious anæmia, the various malarial organisms in the unstained as well as in the stained condition.

Later on, special attention is paid to the microscopic diagnosis of the gastro-intestinal tract, including diphtheria and the microscopic examination of fæces. Furthermore, a thorough examination of diseased conditions of the genito-urinary tract, with special attention to urinalysis; also an examination of sputum and parasitic skin diseases.

Diagnoses of pathological new formations to determine the nature of new growths complete the course.

The material is quite abundant from cases in private practice, and from the laboratory in the curator's department of the hospital.

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THE PRACTICAL ANATOMY DEPARTMENT.

The rooms are remarkably well adapted for the purposes to which they are devoted, being thoroughly equipped and well arranged. There is always an abundance of fresh material, kept in cold storage, the material being previously embalmed.

CLINICAL FACILITIES.

Students of the Medical College of Ohio enjoy privileges that can not be equalled in the West, and probably are not excelled anywhere. At the Good Samaritan Hospital and the College Dispensary they see the various surgical operations performed, and the different manifestations of disease pointed out by members of the College Faculty. The Cincinnati Hospital, where daily clinics are held, is open alike to all the students of the city, and students of the College will also be expected to attend the lectures at this institution during their junior and senior years.

THE COLLEGE DISPENSARY.

Which is free to all students of the College, is open daily, and clinical lectures are delivered on the cases which present themselves every afternoon. Over twelve thousand cases being investigated and treated yearly, including all forms of disease, often even the rarest, every day very important clinical material is brought before the class. In order to utilize to the fullest extent this vast charity, the Faculty has erected the large building elsewhere referred to, and fitted up rooms for the reception and accommodation of patients. The clinics will be conducted in the various departments at the same hour each afternoon, and students of senior and junior classes are assigned for fixed periods to these various departments. In this way students may hear each afternoon members of the Faculty and their assistants lecturing upon and demonstrating diseases in all the various departments of medicine. These clinics are features thoroughly appreciated by the large classes of each session, and

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a large share of the reputation of the institution is due to the thorough manner in which the practical teaching in these rooms has been conducted.

This class of dispensary cases—the minor surgical, the "walking" medical cases, the chronic cases, etc., is just the class that will form the bulk of the work of the young practitioner during his first few years, at least.

THE MEDICAL CLINIC consists of a waiting room and a small amphitheater for fifty students. There present themselves twelve to twenty new cases daily, making about five thousand a year. In pulmonary, cardiac, gastro-intestinal, hepatic, renal, malarial, exanthematic, etc., every variety of walking cases is seen, and Professor Crane and Drs. Hays and Köhler, in addition to their clinical lectures, give students opportunities to make physical examinations. Students are expected to procure their own stethoscopes, thermometers, ete.

The SURGICAL CLINIC has a waiting room and a small lecture room, seating about forty. Here is presented every variety of minor surgery, accidents, venereal cases, rectal diseases, etc. The clinic is conducted by Prof. Carothers, Prof. Whitacre and Dr. Hiller.

The CHILDREN'S CLINIC.— Nearly one thousand new cases are treated annually. The class, in small subdivisions, has direct charge of the examination, treatment and record of these cases, under the supervision of Drs. Southgate, Greiwe and Webb. Every variety of infantile disorder is seen during the term.

The GYNAECOLOGICAL CLINIC—All of the large number of diseases peculiar to women are ocularly, and many of them physically examined by the class in subdivisions, and the greater majority of gynaecological operations are performed in their presence. The staff of this department consists of Prof. Bonifield and Drs. McKee, Miller and Speidel.

The OBSTETRICAL CLINIC—Prof. Zinke, with the assistance of Prof. Rowe, continues to conduct the outdoor obstetrical clinic, and illustrate upon the living the clinical features of pregnancy, labor and confinement at the Ohio

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Maternity Hospital. Members of the graduating class are given opportunities of witnessing and conducting cases of labor at the homes of patients, as well as witnessing the diseases of pregnancy and cases of parturition at this hospital. During the past session one hundred cases of confinement were attended by members of the graduating class.

The EYE AND EAR CLINIC has a waiting room, lecture room, and a dark room, with a twenty-foot range for refraction work, and three stalls, with adjustable Argand burners for ophthalmoscopic work. Twelve hundred new cases are treated annually. Daily lectures are given by Drs. Forchheimer or Wylie M. Ayres. All commoner diseases are presented in abundance. Prof. Ayres also lectures here once a week.

The THROAT CLINIC has, in addition to the usual waiting room and clinical amphitheater, an apartment furnished with specially constructed individual stalls and lights for the training of divided classes of students in the technique of examination and treatment of the nose and throat. Several hundred cases are treated annually. Professor Hyndman and his assistant, Dr. Iglauer, offer any student with a laryngoscope daily practice in becoming skilful in its use. This clinic is equipped with every appliance for treatment, and students are required to make many of the minor operations.

In the NERVOUS DEPARTMENT clinics are held twice a week by Drs. Zenner and Hoppe. The student has an opportunity to familiarize himself with all forms of organic and functional disease of the nervous system, and with the use of electricity, with appliances for which this department is thoroughly furnished.

The SKIN CLINIC is conducted by Prof. Ravogli, assisted by Dr. E. B. Tauber, who, in three clinics per week, are able to demonstrate all of the common, and many of the rare affections.

The ORTHOPEDIC CLINIC, established a year ago, has,

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under the supervision of Prof. Freiberg, grown to be a very valuable factor in the practical teaching of this branch.

The GENITO-URINARY CLINIC has been rendered necessary by the large number of these cases heretofore attending the surgical department. In this separate division, conducted by Prof. Evans, abundant opportunity will be given for practical demonstration of the diseased conditions taken up systematically in his didactic hours

THE GOOD SAMARITAN HOSPITAL.

The clinical instruction of this important hospital is conducted exclusiv .ly by the Faculty, as follows: Professor Ayres and Dr. Walter Forchheimer, Clinical Ophthalmology and Otology; Professor Conner, Clinical Surgery; Professor Forchheimer, Clinical Medicine; Professor Reamy and Professor Charles L. Bonifield, Clinical Gynæcology; Professor Rachford, Clinical Diseases of Children; Professor Ransohoff, Clinical Surgery.

The Good Samaritan now contains about four hundred beds, the number having been considerably increased by the additional buildings erected recently. There is also, as a tributary, an out-door department in connection with the hospital, adding materially to its resources. An abundance of clinical material is thus afforded both in the departments of medicine and surgery. The clinical instruction at the bedside will be conducted by Dr. J. E. Greiwe. Two half days of each week are devoted to clinical lectures (which are free to students of this college).

THE CINCINNATI HOSPITAL.

Is the largest public hospital in the city, where students of all medical schools are admitted on equal terms. Two hours daily are devoted to clinical instruction by the hospital staff. Students of the Medical College of Ohio will here receive practical instruction from a number of their own Faculty—the College being represented on the staff by Prof. Ransohoff in the Surgical, Profs. Poole and Rachford in the Children's, Dr. Hoppe in the Neurological, Prof. Ravogli and

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Prof. Evans in the Dermatological, Prof. C. A. L. Reed in the Gynæcological, and Dr. Greiwe, Prof. Whitacre, Prof. Crane and Prof. Rowe in the Pathological departments. Students of the College are expected to attend the clinical lectures of this institution during their last two terms. Beside, instruction (to advanced students) will be carried on by the staff throughout the session.

PRIZES.

FACULTY PRIZES.—A gold medal is awarded annually by the Faculty to the gentleman passing the best final examination.

Honorable mention is made at the Commencement Exercises of the two candidates ranking next in this final examination.

INDIVIDUAL PRIZES.—Individual members of the Faculty offer, annually, prizes for the best examinations or theses on departments or subjects assigned.

HOSPITAL POSITIONS.—Resident physicians to six different hospitals in the city and vicinity are selected annually by competitive examination. Students of this college alone are allowed to compete for the positions in the Good Samaritan Hospital. The other positions are open to students of any regular school in the city.

TEXT-BOOKS.

The Faculty would recommend one or other of the following text-books in the several departments:

PRACTICE OF SURGERY.—American Text-book of Surgery Bryant's Operative Surgery; Stimson's Operative Surgery.

PRINCIPLES OF SURGERY.—American Text-book of Surgery, Walsham, Park, Wyeth, DaCosta, International Textbook.

OBSTETRICS.—American System of Obstetrics, Playfair, Lusk, Davis, Hirst, Grandin and Garman.

PHYSIOLOGY. — American Text-book of Physiology, Kirke.

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THEORY AND PRACTICE.—Osler, Pepper's American System, Nothnagel.

MATERIA MEDICA AND THERAPEUTICS.—Cushny (as the text-book).

FOR COLLATERAL READING.—Shoemaker, Butler, Wood.

ANATOMY.—Gray, Holden, Quain, Cunningham, Morris, Weisse.

CHEMISTRY.—Bartley, Simon, Crane, Hammarsten, Simon's Clinical Diagnosis.

DISEASE OF THE EYE.—DeSchweinitz, Fuchs, Swanzy, Nettleship, May and Veasey.

EAR.—Bacon, Dench, Buck, Howell, Brühl.

DISEASES OF WOMEN.—Herman, Dudley.

CLINICAL GYNÆCOLOGY.—Dudley, Penrose, Garrigues, Keating and Coe.

PATHOLOGY AND PATHOLOGICAL ANATOMY.—Stengel, Delafield and Prudden, Ziegler, Whitacre.

DISEASES OF CHILDREN.—Holt, Rotch, Ashby and Wright (Northrup's Edition).

DIAGNOSIS.—Musser, Simon, Hare.

DISEASES OF THE THROAT AND NOSE.—Kyle, Coakley, Burnett, Bosworth, Brown, Bishop, Ingalls and Newcomb, Grayson.

ORTHOPEDIC SURGERY.—Whitman, Bradford and Lovett.

MEDICAL DICTIONARY.—Dunglison, Gould, Lippincott, Dorland's American Dictionary.

BACTERIOLOGY.—Abbott, McFarland, Frænkel, Sternberg.

DERMATOLOGY.—Kaposi, Duhring, G. T. Jackson, Stelwagon, For reference, Crocker.

SYPHILOLOGY.—Hyde and Montgomery, Robt. W. Taylor, White and Martin.

NERVOUS AND MENTAL DISEASES.—Church and Peterson, Dana, Oppenheim and Mills.

EMBRYOLOGY.—Heisler.

HISTOLOGY.—Clarkson, Boehm & Davidoff, Stirling, Schaeffer, Stoehr.

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HYGIENE.—Abbott.

GENITO-URINARY DISEASES.—Morton, Lydston, White and Martin, American Text-book.

REQUIREMENTS FOR ADVANCEMENT.

Students are advanced from one class to the next by a vote of the Faculty, based on their standing in the pass-examinations, and on the record of their work for the year.

REQUIREMENTS FOR THE DEGREE.

1. The candidate must produce satisfactory evidence of good moral character, and of having attained the age of twenty-one.

2. He must have pursued medical studies for four years, and attended four annual courses of lectures of not less than six months' duration each. It is, however, provided that graduates of literary colleges who have taken a course of four years, including study in the natural sciences, and graduates from universities and colleges that furnish a suitable course of scientific studies, graduates of schools of pharmacy that require three years of study, and adequate preliminary education, and graduates of dental colleges requiring two years of study and adequate preliminary education, may be admitted to the second year's work or course of lectures in the college, with the privilege of making up any deficiencies of the first year's work. If he has not pursued the entire curriculum of the school, he must have taken such studies and work in some other recognized institution as will be accepted as the equivalent of the course here given.

3. He must have pursued the study of practical anatomy under the direction of the demonstrator to the extent of having made dissections of at least two regions of the body.

4. He must have received clinical instruction (hospital) during two years of his attendance.

5. He must have attended at least one case of labor under the direction of the professor of obstetrics.

6. He must have passed, to the satisfaction of the Faculty, the prescribed examinations of the course.

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TUITION FEES AND EXPENSES.

The matriculation fee of $5.00 is payable but once. The annual tuition fee, for each of the four courses, is $125.00, *entitling the student to all didactic lectures, recitations, required laboratory courses, and dissections of his class.*

(This tuition rate goes into effect, beginning with the Freshman Class of 1903-04. All students whose attendance began prior to this session will be charged the former fee of $100.00 per annum.)

Members of advanced classes will be required to attend hospital clinics, the ticket for which will cost $5.00 at the City Hospital, but is free (to our students) at the Good Samaritan Hospital. The graduation fee is $25.00.

A deposit of $5.00 is required at the beginning of each session to cover the cost of damage to the college furniture, etc., and any excess above such breakage will be returned at the end of the course.

HOW TO REACH THE COLLEGE.—Students who desire to go direct to the College should take the College Hill and Main Street line at Fountain Square. The Vine Street electric cars will let off passengers at Clifton Avenue, one block from the College Buildings.

THE FEES OF THE COLLEGE, as published, are rigidly adhered to, and no "special rates" of tuition are ever given. No degrees are conferred, under any circumstances, except after personal examination of candidates at the close of the regular session.

For additional information, address,

JAMES G. HYNDMAN, M. D., *Secretary.*
No. 22 W. Ninth St., Cincinnati.

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(The Cincinnati Law School.)

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* Absent on leave.

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ORGANIZATION.

The Law Department of the University of Cincinnati was organized in June, 1896, and received its first class in October of the same year. It was the purpose of the Board of Directors to make it truly a university law school, and the Faculty therefore established a rule requiring every applicant for admission to the school to pass an examination, or to exhibit a diploma at least equivalent to that received from a high school.

In the conduct of the school the Faculty decided that the wisest course would be to follow, as closely as circumstances would permit, the method of study known as the "case" system, and in nearly all the subjects the instructors have adopted this system.

THE LAW SCHOOL OF THE CINCINNATI COLLEGE.

The Law School of the Cincinnati College was founded in May, 1833. It was the first law school established west of the Alleghany Mountains. The first term began on October 7. 1833. In 1835 the Law School was incorporated with the Cincinnati College, a literary and academic institution, founded in 1819; and from that time it was conducted under the name of the "Law School of the Cincinnati College." As such, it became permanently located in the College building, on Walnut Street, between Fourth and Fifth Streets, in the City of Cincinnati. It has enjoyed the benefit of a substantial endowment, and has acquired a large law library.

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THE UNION OF THE TWO SCHOOLS.

In May, 1897, steps were taken by the Board of Directors of the Cincinnati College to bring about a union of the Law Department of the University and the Law School of the Cincinnati College. A contract, drawn up by a joint committee representing the Board of Directors of the University of Cincinnati and the Trustees of the Cincinnati College, was ratified by both bodies. By this contract, it was provided that the Faculty of the Law Department, together with certain members of the Faculty of the Law School of the Cincinnati College, should be the Faculty of the new school; and that the degree of Bachelor of Laws should, by the concurrent action of the Board of Directors of the University of Cincinnati and the Trustees of the Cincinnati College, be conferred upon those passing satisfactory examinations in the new school.

RESULT OF THE UNION.

The benefit to the cause of thorough legal education arising from the union was substantial. The University of Cincinnati thus acquired a considerable endowment fund and a law library (now numbering 6,500 volumes) for the use of its Law Department, together with the advantage of the good-will of the Law School of the Cincinnati College, and of its honorable history of more than half a century.

The course and methods of study in the new school are the same as those marked out by the Faculty of the Law Department of the University before the union. The endowment enables the new school to enlarge the course of study, and to make the work more thorough than would have been possible had the two schools continued separate.

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COURSE OF STUDY.

The course of study is designed to occupy the student three full years. It comprises the following subjects:

FIRST YEAR.

CONTRACTS.—Mr. Rogers. Two hours a week. Cases on Contracts: Langdell, Vol. I (2d ed.); Williston, Vol. II.

CRIMINAL LAW AND PROCEDURE.—Mr. Pugh. Two hours a week. Beale's Cases on Criminal Law; Beale's Criminal Procedure.

PROPERTY.—Mr. Herron. Two hours a week. Gray's Cases on Property. Vols. I and II.

TORTS.—Judge Harmon. Two hours a week. Cases on Torts: Ames, Vol. I (2d ed.); Smith, Vol. II.

CIVIL PROCEDURE AT COMMON LAW.—Mr. Hepburn. One hour a week. Stephen on Pleading. Ames' Cases on Common Law Pleading.

LAW OF PERSONS.—Mr. Francis B. James. One hour a week. Smith's Cases on Law of Persons.

SECOND YEAR.

AGENCY.—Eldon R. James. Two hours a week. Wambaugh's Cases on Agency.

QUASI-CONTRACTS.—Mr. Rogers. Two hours a week for twenty-five weeks. Keener's Cases on Quasi-Contracts.

SURETYSHIP.—Mr. Pugh. Two hours a week for ten weeks. Ames' Cases on Suretyship.

EVIDENCE.—Judge Sayler. Two hours a week. Thayer's Cases on Evidence.

EQUITY.—Mr. Cleveland. Two hours a week. Keener's Cases on Equity Jurisdiction, Vols. I and II.

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PROCEDURE IN EQUITY.—Mr. Maxwell. One hour a week for twenty-five weeks. Equity rules of the Supreme Court of the United States, and selected cases.

JURISPRUDENCE.—Mr. Maxwell. One hour a week for ten weeks. Holland's Elements of Jurisprudence.

PROPERTY.—Mr. Herron. Two hours a week. Gray's Cases on Property, Vols. III and IV.

SALES OF PERSONAL PROPERTY.—Mr. Pugh. Two hours a week. Williston's Cases on Sales.

THIRD YEAR.

EQUITY.—Mr. Pugh. Two hours a week. Keener's Cases on Equity Jurisdiction, Volume III, and Ames' Cases on Trusts.

CONSTITUTIONAL LAW.—Mr. Morrill. Three hours a week. Thayer's Cases on Constitutional Law.

PROPERTY.—Mr. Eldon R. James. Two hours a week. Gray's Cases on Property, Vols. V and VI.

BILLS AND NOTES.—Judge Sayler. Two hours a week. Ames' Cases on Bills and Notes.

CORPORATIONS.— Mr. Rogers. Two hours a week. Smith's Cases on Corporations; Smith's Cases on Municipal Corporations.

CODE PLEADING.—Mr. Hepburn. One hour a week. Hepburn's Historical Development of Code Pleading; Ohio Code of Civil Procedure (Whittaker's Annotated Edition); Hepburn's Cases on Code Pleading.

BAILMENTS AND COMMON CARRIERS.— Mr. Rogers. One hour a week. McClain's Cases on Common Carriers.

PARTNERSHIP.— Mr. Pugh. One hour a week. Ames' Cases on Partnership.

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In addition to the above course, the Third Year Class is given a full and complete review of the whole course by a competent instructor.

SCHEDULE OF LECTURE HOURS.

FIRST YEAR		Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
SUBJECT	PROFESSOR						
Contracts	Mr. Rogers	10 am		10 am.			
Torts	Judge Harmon.		9 a.m.			9 a.m.	
Criminal Law	Mr. Pugh		10 am.		10 am.		
Property	Mr. Herron	9 a.m.					9 a.m.
Common Law Pleading	Mr. Hepburn				9 a.m.	10 am.	
Domestic Relations	Mr. F. B. James			9 a.m.			
Moot Court	Mr. Pugh						10 am.
SECOND YEAR							
Quasi Contracts	Mr. Rogers		10 am.		10 am.		
Property	Mr. Herron	4 p.m.					10 am.
Equity Pleading and Jurisprudence	Mr. Maxwell	9 a.m.			9 a.m.		9 a.m.
Sales and Suretyship	Mr. Pugh			10 am.		10 am.	
Equity	Mr. Cleveland		9 a.m.	9 a.m.			
Agency	Mr. E. R. James.		4 p.m.			4 p.m.	
Evidence	Judge Sayler			4 p.m.		9 a.m.	
Moot Court	Mr. Pugh	10 am.					
THIRD YEAR							
Equity	Mr. Pugh	2 p.m.				2 p.m.	
Corporations	Mr. Rogers				11 am.	9 a.m.	
Partnership	Mr. Pugh		2 p.m.				
Carriers	Mr. Rogers						10 am.
Bills and Notes	Judge Sayler		9 a.m.		9 a.m.		
Property	Mr. E. R. James	9 a.m.		9 a.m.			
Constitutional Law	Mr. Morrill	10 am.		10 am.		10 am.	
Code Pleading	Mr. Hepburn						9 a.m.
Municipal Corp'ations*	Mr. Rogers						
Moot Court	Mr. Pugh		3 p.m.				

* To follow Private Corporations.

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Every candidate for a degree is required to pursue a course of study embracing eleven hours of recitation a week for the first year, thirteen hours a week for the second year, and fourteen hours a week for the third year, and to attend regularly the Moot Court of his class.

TERMS AND VACATIONS.

The Fall Term begins on Monday, September 26 and the Spring Term on the first Monday in February.

There is a vacation of two weeks during the Christmas holidays, beginning Monday before Christmas.

REGISTRATION.

Applicants for admission by examination to the first-year or second-year class must register at the rooms of the Law School on or before the Tuesday preceding the last Monday in September.

Applicants for admission on certificate without examination to the first-year class must register at the Law School rooms on or before the Saturday preceding the last Monday in September.

EXAMINATIONS.

The annual examinations of each class are held during the last week in May.

Examinations for admission to the first-year class of those who can not produce the requisite certificate are held at the lecture-rooms on the Wednesday preceding the last Monday in September of each year. At the same time and place examinations are held of those desiring admission as regular students to the second-year class.

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No one can be admitted as a regular student to the third-year class who has not completed the second-year course as a student in this school.

No student who fails to pass a satisfactory examination of his year's work is permitted to enter upon the next year's course. If a student fails to pass a satisfactory examination in three of the subjects of the year's study, he is dropped, and can not continue in the school except by taking again the year's course in which he has failed. If a student fails in one or two of the subjects of the year, he is conditioned, and before entering upon the next year's course is required, in October, to pass a satisfactory examination in such subjects.

DEGREES.

The degree of Bachelor of Laws is given to students who, having completed the three years' course, pass a satisfactory final examination.

LOCATION OF SCHOOL.

The school is located in the central part of the city, on Ninth Street between Race and Vine Streets, in a new building, just completed at an expense of $65,000. The building, planned especially for Law School purposes, is artistic and complete in every detail.

The law library and stack-room are located on the first floor. On the same floor is the large reading room, well furnished with chairs, reading and writing tables, with a capacity for seating 250 persons. This room is so arranged that it can be used as an audience room for general meetings of the school, or for special occasions, requiring a large room.

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On the floor above are the professors' rooms and three large lecture rooms well lighted and ventilated.

There are also club rooms with chairs, tables and lockers, for the convenience and accommodation of the students.

Every effort has been exerted to make this new building a complete home for the school and an attractive place for Law School work.

TUITION FEE.

The tuition fee for students who are candidates for a degree is $100 a year, the first half payable upon registration, the second half at beginning of second term.

LIBRARY.

The school has a library of 6,500 volumes in the same building with its recitation rooms. The library is open to the students daily from 9 o'clock A. M. to 10 o'clock P. M.

MOOT COURT.

Moot Courts will be held under supervision of members of the faculty. Each class will have its own court, which will meet at least once a week.

LAW AND DEBATING CLUBS.

The students have organized several law clubs, in which it is the custom to consider and discuss cases suggested either by one of the Faculty or by members of the Bar. Such discussions are presided over by the person suggesting the case or question, and at the conclusion a decision is rendered. Briefs are expected from those appointed to

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lead in the discussion. The attention of the students is thus kept alive to the course of study, and original investigation and reasoning on lines of approved legal thought are stimulated.

INSTRUCTION IN OTHER DEPARTMENTS.

Any student in the Law Department, though a non-resident of Cincinnati, may, without additional charge, attend the lectures, and receive instruction in the Academic Department of the University. Non-resident students who wish to avail themselves of this privilege must procure from the Librarian of the Law School a certificate of membership of the school.

SPECIAL ARRANGEMENTS FOR JUNIORS AND SENIORS OF THE ACADEMIC DEPARTMENT.

A student of the Academic Department who has received credit for the work of the first two years in the Academic Department may, in the third year, elect from four to six hours of the lectures of the first year of the Law School course, as a substitute for studies in the Academic Department, and in the following year he may, in the same way, take the remainder of eleven hours of the first year's course in the Law School. Or he may, provided he has completed 140 credits in the Academic Department, elect the full eleven hours of the first year of the law course, in addition to the remaining hours of academic work. The eleven hours of law work to be substituted for eleven hours of academic work, thus having four hours of academic work to be completed. A student of the Academic Department who pursues this course is obliged to devote only two

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years to the study of law, after graduating from the Academic Department, in order to obtain the degree of Bachelor of Laws.

SPECIAL STUDENTS.

Special students, not candidates for a degree, who wish to attend only part of the lectures and recitations of the Law School, may do so upon giving satisfactory evidence of their fitness for such a course of study, and upon payment of such a proportionate part of the regular tuition fees as may be fixed by the Dean.

ADMISSION.

Graduates and matriculates of a college, academic or technological, and graduates of a public high school, or of a private academy of equivalent standing, and holders of a certificate from the committee appointed by the Supreme Court of Ohio showing that the applicant's attainments are equivalent to those of a high school graduate, are admitted to the first-year class without examination, on exhibiting the proper certificate. Other applicants are required to pass an examination. The examination covers the following subjects:

English Composition.—The applicant is required to write an essay of not less than three foolscap pages on one of several topics, to be given him at the time of the examination. The proficiency of the applicant in spelling, punctuation, use of capital letters, grammar and paragraphing, is determined from this essay.

Latin.—The applicant is required to translate into good English a passage selected at random from the first four books of Caesar's Commentaries. As a substitute for

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Latin, the applicant may offer the reading of German or French at sight; or he may pass an examination in the outlines of English Literature—(Stopford Brooke's Primer of English Literature.)

History.—Outlines of English and American History. (Johnson's History of the United States; Ransom's History of England.)

Mathematics.—Arithmetic, Algebra to Quadratic Equations, and Plane Geometry.

Applicants for admission to advanced standing are required to pass examinations on the course of study previously pursued in the school by the class to which they seek admission.

EXPENSES.

The text-books used cost from $40 to $50 each year; but arrangements have been made by which they will be redeemed at the end of the year, thus making this item of expense only nominal. The following is said to be a reasonable statement of expenses:

Rent and care of room, per week.....	$1 00 to $3 00
Board, per week.....	2 50 to 5 00

For additional information, application should be made to the Librarian of the Law School, Cincinnati, or to the Dean.

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THE CLINICAL AND PATHOLOGICAL SCHOOL OF THE CINCINNATI HOSPITAL.

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H. E. Shilling, M. D.
E. Bruns, M. D.
M. A. Flenner, M. D.
F. W. Krueger, M. D.
} Term expires Nov. 10, 1904.

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A. Vos, M. D.
S. Lange, M. D.
H. H. Johnson, M. D.
} Term expires May 10, 1905.

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ORGANIZATION.

Since 1857 the Medical Staff of the Cincinnati Hospital has delivered annually a series of clinical lectures, open to all advanced medical students in the city. Originally the course extended from October to February. The first course was attended by eighty-nine students.

In 1887 the Board of Trustees of the Hospital authorized the organization of the staff under the title of the Clinical and Pathological School of the Cincinnati Hospital. Since that time the lecture course has been thus entitled. Until the establishment of the present Medical Department of the University of Cincinnati, in 1896, this school was designated as the Medical Department of the University, by the authority of the boards of both institutions. This action was taken at the instigation of Dr. C. G. Comegys, at that time president of the Hospital Staff, and also a member of the Board of Directors of the University.

The Cincinnati Hospital is supported entirely by taxation. About 5,000 patients are treated annually.

The staff, which is appointed annually by the Board of Trustees of the Hospital, regularly gives the usual course of lectures, extending from October 1 to March 31. Two lectures are delivered daily, six days in every week.

The lectures are open to all third-year and fourth-year medical students in the city, on payment of a fee of five dollars for the course. During the present session 238 students are enrolled. The number of students has fluctuated between 89 in 1857-1858, and 397 in 1887-1888.

The fees collected from the students are used to support the Hospital Library and Museum. The library contains at present 13,148 bound volumes, consisting chiefly of com-

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plete files of the leading medical periodicals of this country and Europe, and also of the most important encyclopædic works. The library is open for reference from 8 to 12, 3 to 5 daily, and from 6 to 10 on Tuesday, Wednesday, Thursday and Friday. The use of it is free to all physicians, medical students and citizens. In completeness and usefulness it is surpassed by only one or two libraries in the West. Dr. P. S. Conner is the librarian; P. Alfred Marchand, registrar and custodian. Books may be taken from the Hospital by members of the Hospital Staff only. About $1,000 is expended annually for the support of the library. It is constantly being enriched by gifts.

Recently the laboratory facilities of the Hospital have been greatly improved by the addition of several new rooms, the re-equipment of the laboratory and a reorganization of the laboratory force.

ORDER OF LECTURES.

	HOUR	MON.	TUES.	WED.	THUR.	FRI.	SAT.
OCT. AND NOV.	8:45 to 9:45	**Hoppe.** Neurology	**Holt.** Medicine.	**Poole.** Pediatrics.	**Carson.** Pathology	**S.E.Allen. Vail.** Laryngo'y & Opthal.	**Ravogli.** Dermat'gy
	9:45 to 10:85	**Ransohoff.** Surgery.	**Caldwell.** Orthoped-ics.	**Withrow.** Obst. and Gyn.	**Oliver.** Surgery.	**Eichberg.** Medicine.	**G.M.Allen.** Obst. and Gyn.
DEC. TO MARCH	8:45 to 9:45	**Freiberg** Orthope-dics,	**Taylor.** Obst. and Gyn.	**Rachford.** Pediatrics.	**Fackler.** Medicine.	**Sattler. Murphy.** Opthal. & Laryngo'y	**Evans.** Dermat'gy
	9:45 to 10:45	**Walker.** Surgery.	**Bettmann.** Pathology	**Reed.** Obst. and Gyn.	**Dandridge.** Surgery.	**Langdon.** Neurology	**Mitchell.** Medicine.

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Professor of Operative Dentistry and Dental Pathology.

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Professor of Physiology and General Pathology.

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Professor of Dental Technics.

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Lecturer on Orthodontia.

L. E. CUSTER, B.S., D.D.S., Dayton, O.
Lecturer on Anæsthetics and Dental Electricity.

O. L. CAMERON, M.D., 11 West Ninth St.
Instructor in Bacteriology.

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CALENDAR.

1903.

September 7, Monday.... Opening of the Fall Clinical Course.

October 6, Tuesday..... Academic Year begins. Registration of students. Opening Lecture of the Winter Session.

November 26, Thursday... Thanksgiving Day, a holiday.

December 15, Tuesday..... Mid-term Examinations begin.

Christmas Recess from December 19, 1903 to January 4, 1904.

1904.

January 4, Monday.....Lectures resume, 8:30 A. M. Second Half-year begins.

April 21, Thursday..... Final Examinations begin.

April 28, Thursday..... Examination of Clinical Work for Prizes.

April 30, Saturday..... Examination Returns announced to Senior Class.

May 4, Wednesday..... Faculty Supper to Graduating Class.

May 5, Thursday..... Alumni Association Meeting, 10 A.M., Taylor Hall.
Commencement at the Odeon, 8 P.M.

May 6, Friday..... Opening of the Spring Clinical Course.

September 5, Monday..... Opening of the Fall Clinical Course.

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FOUNDATION.

The Ohio College of Dental Surgery was established in Cincinnati in 1845, largely through the efforts of the late Professor James Taylor, its first president. Founded at a time when the science of dentistry was in its infancy, it became the pioneer of dentistry in the West. It was the second college of dentistry established in the world, the first having been chartered at Baltimore, in 1839. Its graduates early took rank among the foremost practitioners and teachers of dentistry in America, and their settlement in foreign countries very largely contributed to the good reputation which American dentistry attained abroad.

Early in its history the College erected its own building, on College Street, which it occupied continuously until 1895, when it removed to its present building at Central Avenue and Court Street. In 1888 the College was affiliated with the University of Cincinnati, assuming, in addition to its old name, that of the Dental Department of the University of Cincinnati. The school is co-educational, having in 1865 conferred the degree upon the first woman graduated in dentistry.

BUILDING AND EQUIPMENT.

The College is situated in the center of a densely peopled city, drawing from a population of more than half a million people for its clinical material. The clinics are made a feature of the College teaching, and the careful supervision which they have received for many years, gives an infirmary practice not surpassed anywhere in the country.

The building occupies a prominent corner, ninety by one hundred feet, in a city of the first class, to which a

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large student population is attracted each year by the reputation of its professional schools. The Ohio Dental College shares in this good reputation and in the preparations and accommodations which are made for these students.

The building, with the improvements that are made from year to year, is found especially well adapted for teaching purposes, and the College takes rank among the first modern Dental Educational Institutions.

COURSE OF STUDY.

The course of study is graded for Freshman, Junior and Senior classes, and at the end of the first and second years written examinations are required for advancement. The course is so arranged that all lectures are given during the morning hours, and the afternoon is devoted to clinical and technical work.

Freshman Year.— The curriculum for Freshman students includes lectures upon Anatomy, Histology, Chemistry (Chemical Physics and Inorganic Chemistry), Dental Anatomy (Black), Development of the Teeth, Prosthetic Dentistry; Course in Extracting Teeth, Operative Technics Laboratory Course, Prosthetic Technics Laboratory Course, Histological Laboratory Course, Dissecting Course, and Prosthetic Infirmary Practice.

Sophomore Year.—The studies of the Sophomore Year will be announced when that class exists, Session 1904-1905.

Junior Year.— The curriculum for Junior students includes lectures upon Anatomy (general and comparative), Physiology (general), Operative Dentistry, Prosthetic Dentistry and Metallurgy, Chemistry (general), Anaesthetics,

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Dental Pathology; Dissecting Course, Chemical Laboratory Course, Daily General Infirmary Practice (operative and prosthetic), Crown and Bridge Work.

Senior Year.— The curriculum for Senior students includes Anatomy (advanced) and Oral Surgery, General Pathology, Chemistry (organic), and Materia Medica, Operative Dentistry, Dental Hygiene, Dental Jurisprudence, Orthodontia, Crown and Bridge Work, Instruction in Continuous-gum and Porcelain Work, Mechanical Treatment of Cleft-palate and Daily General Infirmary Practice.

FACULTY PRIZES.

The Faculty offers to the classes of 1903-1904 thirteen prizes, including a Scholarship Prize to the Freshman class.

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PART II.

REGISTER OF STUDENTS
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THE ACADEMIC DEPARTMENT, THE GRADUATE DEPARTMENT, AND THE SUMMER SCHOOL.

ACADEMIC STUDENTS.

Abrahams, Alfred C.....3005 Hackberry Street
Adams, Eleanor N.....4214 Hamilton Avenue
Allen, Carolyn Bushnell.....2404 Auburn Avenue
Allgaier, Edward Dunaway.....2921 Werk Road
Andrew, Agnes.....Heekin Avenue, Linwood
Andrew, Ellen Bertha.....Heekin Avenue, Linwood
Atkins, Frank P.....2311 Highland Avenue, Walnut Hills
Attig, Carl Leo.....3128 Borrman Avenue
Atwood, Lida Florence.....St. Leger Place
Avey, Ellen Gertrude.....2717 Ashland Avenue
Ayers, Ida S.....299 Southern Avenue
Ayers, Mabel.....299 Southern Avenue
Babbitt, Elizabeth S.....932 Summit Avenue
Babbitt, Katharine Williams.....605 W. Eighth Street
Bahlmann, Clarence.....3201 Woodburn Avenue
Baker, Jane.....538 Howell Avenue
Barkley, Addie M.....212 Carpenter Street
Bateman, Elsa F.....Glendale, Ohio
Bauer, Samuel G.....2249 Vine Street
Bauer, Stanley.....2249 Vine Street
Bauer, Flora.....1849 Fairmount Avenue
Baughman, Stanley L.....1018 Findlay Street
Baxter, R. Waverly.....2703 Alms Place
Bedinger, Harriet.....Walton, Ky.
Bedinger, Sarah.....960 Morris Street, Walnut Hills
Behrman, Michael.....816 Madison Avenue, Covington, Ky.
Beinhart, Frieda.....422 Bauer Avenue
Bell, Flora M.....627 Shillito Street
Bellville, Grace A.....Terrace Park, Ohio

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Benedict, Stanley Rossiter.....3461 Brookline Avenue
Bentley, Louise Estelle.....359 Resor Avenue
Berliner, Max..... 812 Oak Street
Bernheim, Emily May.....2241 Kemper Lane
Bernstein, Louis.....Omaha, Neb., and 709 Glenwood Avenue
Bing, Selma Harriet.....S.e.c. Forest and Burnet Avenues
Black, Kathleen Lily..... 2125 Fulton Avenue
Blain, Lenore.....2316 Highland Avenue, Mt. Auburn
Blair, Faris Morell.....3675 Heekin Avenue, Linwood
Bode, Estelle Regina.....4230 Landland Street
Bogen Florence..... .....547 Hale Avenue
Box, Cora May.....275 McGregor Avenue
Boyde, Frances R.....San Rafael Flats
Braun, Annette F.....2702 May Street
Braun, Frederick.....Chicago, Ill., and 2611 Moorman Avenue
Brainard, Jerome W ..... 308 E. Front Street
Briggs, Daisy Adaline.....Mt. Healthy, O.
Broadwell, Clara Weber.. .....4 East Seventh Street
Brockman, Elsie A..... ...Pleasant Ridge, Ohio
Broeman, Frank.....926 Hawthorne Avenue
Brotherton, John William.....1015 Locust Street
Bryan, Alice M.....2561 Ingleside Place
Buechner, Anna Elizabeth..... .....245 Shillito Street
Bultman, Elsa.....2303 Ashland Avenue
Burnett, Ada Marie.....1103 E. Court Street
Burns, Carolyn Ormsby.....Montfort Avenue
Buschman, Clara.....1209 Elm Street
Cairns, Hazle Thomas .....615 Crown Street
Caldwell, Bess.....Glen Parker Avenue
Callahan, George Stevenson..... .....768 Ridgeway Avenue
Campbell, Mary Edith....."The Somerset," Avondale
Campbell, Wendell B.....622 Broadway
Cantor, Evelyn.....626 Maple Avenue
Cappell, Walter.....238 Gilman Avenue
Carpenter, Alice Pearl..... 1561 Greenup Street, Covington, Ky.
Carter, Mary Lynn.....Stettinius Avenue, Hyde Park
Cherrington, Frank W.....1522 Blair Avenue

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Chuck, Robert M.....628 Mound Street
Church, Louise W.....4107 Forest Avenue, Norwood, Ohio
Clark, Corinne.....Lebanon, O. and 283 Earnshaw Avenue
Clark, Elizabeth Lawler.....936 Grand Avenue
Clemen, Charlotte.....2535 Scioto Street
Collier, George Carl.....224 W. Liberty Street
Collins, Lucy Weimar..Dayton, O., and Morris and Grand Streets
Cone, Maude R.....4141 Florida Avenue, Northside
Connor, Myrtle.....1378 Avon Place
Coombe, Edith.....1930 Bigelow Street
Corboy, Helen.....Winchester, O., and 1822 Fairfax Avenue
Cordesman, Ida Louise.....855 E. Ridgeway Avenue
Cornelius, Clara Marie.....133 Fourteenth Street
Crain, Agnes.....Third Avenue near Liberty Street, Price Hill
Crenshaw, Mary Louise.....626 Sixth Avenue, Dayton, Ky.
Cronbach, Gertrude.....907 Richmond Street
Crouse, Anna Marie.....312 W. Ninth Street
Darr, M. Loretta.....3548 Coleraine Avenue
Davis, Ida Estelle.....935 Grand Avenue, Price Hill
Dayton, Roger Levering.....Terrace Park, O.
Dearness, Frederick William.....2654 Harrison Avenue
Dechant, Harry Peter.....737 Richmond Street
De Courcy, Lydia.....827 W. Eighth Street
Dehner, Angela.....3208 Beresford Avenue
Detraz, Wilhelmina.....1204 Chapel Street
Deuser, Luella M.....1815 Fairfax Avenue
Dickerson, Richard Furnis.....2629 Melrose Avenue
Dicore, Marie Paula.....3530 Beechmont Avenue
Dillman, Aurelia.....1572 Spruce Street
Dillman, Julia A.....1572 Spruce Street
Dimmick, Ralph B.....236 McCormick Place
Dittrich, Agnes D.....2132 Grand Avenue
Dittrich, Clara.....2132 Grand Avenue
DuBray, Alma Mia.....809 E. Ridgeway Avenue
Duguid, Edith Louise.....8 Eden Park Terrace
Dunn, Jesse.....Cleviot Avenue
Dyer, Alma Frances.....Station F, Mt. Harrison

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Dyer, Herbert L.....Mt. Harrison, City
Earls, Caroline M.....Bond Hill, O.
Ebersole, Edith McCallister.....610 Maple Avenue
Edwards, H. Boyd.....Hotel Glencoe, City
Eger, Emma L.....1531 Hapsburg
Eger, Linda.....1531 Hapsburg
Ellis, John D. Moss.....803 Maple Avenue
Ennis, Goldie Lillian..... 211 W. Court Street
Ettelson Harry.....435 Ridgeway Avenue
Ettlinger, Nora.....3415 Harvey Avenue
Ettlinger, Selma.....3415 Harvey Avenue
Evans, Mary Sibley.....Glendale, O.
Evans, Nannie.....332 Ellen Street
Ewald, Alice Edna.....3304 Warsaw Avenue
Fahrenbruck, Florence.....614 Riddle Road
Falkinburg, Clara Electa.....Home City, O.
Farnau, Earl Frederic.....26 Grand Avenue, Covington, Ky.
Farnham, Gordon..... 213 W. Eighth Street
Farrell, Harlowe A.....741 Hopkins Street
Fechheimer, Delia.....1370 Myrtle Avenue
Fetsch, Harry Christian.....2530 W. Sixth Street
Fillmore Mary.....4228 Floral Avenue, Norwood, O.
Fischer, Elsie.....2715 Euclid Avenue
Fisher, Charles Alfred.....404 Crestline Avenue
Flick, Catherine.....721 W. Ninth Street
Fox, Stella.....507 Milton Street
Freund, Emma.....3611 Spring Grove Avenue
French, Florence.....2444 Observatory Place
Friedman, Harry George.....706 Barr Street
Frisch, Ephraim...Union Hill, N. J., and 3202 Woodburn Avenue
Fry, Harry Shipley.....2257 Adams Avenue, Norwood, Ohio
Gage, Harriet Anna.....140 W. McMillan Street
Gallagher, Esther C.....1733 E. McMillan Street
Garrison, Bessie H.....2946 Urwiler Avenue
Gauche, Anna Mae.....124 E. Ninth Street
Gauche, Kathryn Louise.....124 E. Ninth Street
Gerard, Clyde.....4426 Hamilton Avenue

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Getz, Alma.....8 Neff Avenue
Glas, Norma.....2702 Cleinview Avenue
Godshaw, Alfred T..... 825 W. Ninth Street
Goetz, Christina.....138 Elm Street, Ludlow, Ky.
Goldberg, Bernise.....616 Shillito Street
Goldblatt, Harriet.....2051 Gilbert Avenue
Goldblatt, Mildred H.....2051 Gilbert Avenue
Goldenberg, Frank.....704 Everett Street
Goldenson, Samuel Harry..Rochester, N. Y., and 378 Bryant Ave.
Goldsmith, Adele H.....507 W. Eighth Street
Goldstein, Sidney Emanuel.....3240 Reading Road
Goode, Florence.....226 Hosea Avenue
Goodin, Alice.....Delhi, O.
Goodin, Eleanor.....Delhi, O.
Goodman, Theodosia deC.....823 Hutchins Avenue
Gordon, Margery.....318 North D Street, Hamilton, O.
Gordon, Nathan....New Orleans, La., and 3005 Hackberry Street
Gorton, Ethel Louise.....2 Bella Vista Place
Gowdy, Robert E. Clyde.....140 W. McMillan Street
Graf, William J.....701 W. Fifth Street
Gray, Geoffrey Arthur.....3 S. Auburn Avenue
Griffin, Stella E.....May and McMillan Streets
Gunthorp, Pauline.....451 Ludlow Avenue
Guthrie, Austin L.....2228 Loth Street
Haft, Gussie.....1328 Cutter Street
Hagerty, Mary Emily.....1524 Chapel Street
Hale, Irene Gray.....Forest Avenue, Winton Place, O.
Halstead, Leonore.....Riverside, O.
Hammer, Olga L.....Norwood Avenue, E. Norwood, O.
Hargrave, Catherine Perry.....4229 Floral Avenue, Norwood, O.
Harig, Laura.....101 Winkler Street
Harrison, Alice A.....815 Maple Avenue, Newport, Ky.
Harvey, Ruth S.....Bond Hill
Hawke, Mabel E.....657 McMillan Street
Heck, Jean O.....632 Barr Street
Hegner, Lyda Elizabeth.....3159 Harvey Avenue
Henshaw, Albert M.....College Hill, O.

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Heitmeyer, Harry C.....1316 Race Street
Hendel, Ada Pauline.....Terrace Park, O.
Heyl, Norma L.....Erkenbrecher Avenue
Hill, Alexander, Jr.....3128 Woodburn Avenue
Hill, Edith Ramsden.....3128 Woodburn Avenue
Hirsch, Stella.....543 Rockdale Avenue
Hoban, May Belle.....420 Richmond Street
Holz, Albert.....415 Ludlow Avenue
Homburg, Emil.....104 W. Clifton Avenue
Horwitz, Sadie.....667 Forest Avenue
Hurley, Edward M.....910 W. Ninth Street
Ibold, Peter Michael.....3645 Middleton Avenue.
Inott, Ralph.....Westwood
Ireland, Jessie.....226 McCormick Place
Isaacs, Nathan T.....702 W. Ninth Street
Isham, Eleanor Louise.....849 Oak Street
Jacobs, Florence M.....2619 Western Avenue
Jacobs, Lillie M.....553 Carlisle Avenue
Jacobs, Marguerite.....611 Prospect Place
Jaeger, Martha Josephine.....622 Crown Street
Jasin, Joseph.....1523 John Street
Jewett, Almira.....541 Ridgeway Aveneu
Johnson, Eliza Crosby.....
Jones, Elizabeth Irvins.....257 Loraine Avenue
Jones, Joseph Robert.....2315 Highland Avenue
Jones, Ralph Colton.....1014 McMillan Street
Jordan, Simon Burnett.....1720 Fairfax Avenue
Joseph, Myra.....614 Shillito Street
Judkins, Ellen A.....122 Garfield Place
Jupp, Sarah Elizabeth.....344 Ludlow Avenue
Kammeron, Edward E....S. W. Cor. Twelfth and Walnut Streets
Kautz, Elsie.....4176 Hamilton Avenue
Kennedy, Florence.....828 W. Seventh Street
Kersting, Emma Sophia.....145 Saunders Street
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King, Frederick Alvin.....110 Huntington Place
Kinsella, Annie.....Hopple Street, N. Fairmount

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Kinsella, Jennie.....Hopple Street, N. Fairmount
Kirker, Star Edith.....436 Elizabeth Street
Klemm, Clara D.....Flat 21, "The Eden"
Koch, Felix John.....1363 Myrtle Avenue
Koehler, Katharine.....48 South Warwick, Avondale
Kohler, Louise Katherine.....204 E. Fourth Street
Kohnky, Emma.....Crown and Essex Place
Kohnky, Frances.....Crown and Essex Place
Kohnky, Irene.....Crown and Essex Place
Kopald, Louis J.....Omaha, Neb., and 1318 Westminster Avenue
Kruckemeyer, Erna.....2615 Euclid Avenue
Lambdin, Lucy M.....914 Rogers Place, Walnut Hills
Latta, Luella A.....20 Latta Avenue, Ludlow, Ky.
Layman, Margaret Elinor.....619 Crown Street
LeCount, Eva Lois.....831 Oak Street
Leist, Amelia A.....4012 Elsmere Avenue, Norwood, O.
Leue, Elsie Conradine.....1312 Bates Avenue
Levinson, Samuel J...Brooklyn, N. Y., and 3005 Hackberry Street
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Lewin, Sarah.....731 Kenyon Avenue
Lewis, Clifford Spencer.....943 Paradrome Street
Linch, Harry.....1035 Central Avenue
Little, Helen C.....Eighth Street and Vaughn Road, Price Hill
Llyod, Margaret Stuart.....
.....Yonkers, N. Y., and Christ Church Parish House
Loeb, Elsa.....829 Rockdale Avenue
Loewenstein, Fannie H.....Rosedale Place, Avondale
Long, Blanche.....1049 Wesley Avenue
Lotze, Erna Magdelen.....733 Ridgeway Avenue
Lotze, Frieda.....731 Ridgeway Avenue
Lovitch, Meyer.....1012 Cutter Street
Lynn, Bessie Ethel.....837 Hutchins Avenue
Lyon, E. D.....Madisonville, O.
McClure, Eleanor W.....2615 Kleine Street
McDowell, W. Winn.....914 York Street, Newport, Ky.

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McFarland, Rose..... 633 June Street
McGowan, Mary.....Epworth Avenue, Madisonville, O.
McGuire, Ella.....4142 Kirby Avenue
McKibbin, Harriet.....2613 Ashland Avenue
McKibben, Nancy Patterson.....2613 Ashland Avenue
McLaughlin, Esther Barbe.....229 McGregor Avenue
McLaughlin, Roy M.....2719 Euclid Avenue
McNutt, Florence Anna.....4232 Mad Anthony Street
Macbrair, Blanche.....College Hill, Ohio
Mackelfresh, Anne Susan.....Froome Avenue, Winton Place, O.
Madden, Fannie.....Station M
Maddux, Maud.....14 W. Ninth Street
March, Cora.....Wyoming, O.
Marckworth, Edna.....2156 Ohio Avenue
Marsh, Clarence Thomas.....28 E. McMillan Street
Marty, Ruth E.....Ft. Thomas, Ky.
Maury, Margaret Carel.....870 Glenwood Avenue
Mayer, S. Millard.....600 Maple Avenue
Mayhew, Genevieve Grace.....1207 Chapel Street
Meader, Lee Douglas.....2651 Gilbert Avenue
Meader, Lucy Alice McDowell.....2651 Gilbert Avenue
Mendoza, Louis D.....2611 Moorman Avenue
Merrill, Elizabeth.....52 E. McMillan Street
Merrill, Natilie.....52 E. McMillan Street
Mertens, Thelka.....2048 Auburn Avenue
Metz, Elsie Lauretta.....2648 Melrose Avenue
Miller, Carrie Amy.....Bellefontaine, O., and 2110 Fulton Avenue
Miller, Charles L.....145 Mulberry Street
Miller, Eleanor Adelaide.....3632 Washington Avenue
Miller, Julian Henry.....Omaha, Neb., and S. Crescent Avenue
Mills, Anthony.....96 W. McMillan Street
Mittendorf, Grace.....3465 Brookline Avenue
Molony, Gerald N.....College Hill, O.
Moorbrink, Dorothea.....1501 E. McMillan Street
Moore, Lulu Bradbury.....410 Broadway
Murphy, Ada Marguerite.....241 E. University Avenue
Murphy, Celia.....941 W. Seventh Street

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Mussey, Noel Gano.....Glendale, O.
Mussey, Robert D.....Glendale, O.
Myers, Grace Elma.....4211 Mad Anthony Street
Nelson, Estelle Anna.....3 Tuxedo Place
Nelson, Robert B.....214 W. Seventh Street
Nevin, Nelle Frances.....3299 Southside Avenue, Riverside
Nieman, Syrian.....Edwards Road, Hyde Park
Nippert, Edward F.....Southport Building, Chase Avenue
O'Connell, Robert.....1325 Grace Avenue
O'Donnell, Gertrude.....1526 Lingo Street
Oeh, Stella.....2833 Clifton Avenue
Oskamp, Marion D.....Wyoming, O.
Ottermann, Charles.....1823 Highland Avenue
Paddack, M. A.....Wyoming, O.
Parker, Anna Louise.....727 Whittier Street
Parks, Sarah S.....2353 Kemper Lane
Payne, Frank H.....424 W. Fourth Street
Peacock, George C.....301 W. Fifth Street
Pearson, Lucy Helen....."The Roanoke," Clifton
Peaslee, Leon Denning.....3218 Warsaw Avenue
Peek, Gladys.....235 E. Fourth Street, Newport, Ky.
Perry, Laura Lee.....2209 Park Avenue
Persons, Hubert.....1345 Grace Avenue
Pfirrmann, Bertha E.....2507 Auburn Avenue
Pflueger, Edward William..1559 Banklick Street, Covington, Ky.
Phares, Carl.....3449 Evans Place
Pierce, Anna Cordelia.....947 Hawthorne Avenue
Pierce, Thomas P.....Harrison, O.
Plaut, Emma Jeannette.....3547 Bogart Avenue
Powell, Caroline Ann.....2854 Stanwood Avenue
Quitman, Jesse.....Nash Avenue, Mt. Lookout
Raresheid, Lilian May.....512 Milton Street
Rauch, Joseph.....Galveston, Texas, and 3005 Hackberry St.
Reichler, Max.....1438 McMillan Street
Reilly, Emma C.....453 Considine Avenue, Price Hill
Reitmann, George Edward.....1435 Central Avenue
Resor, Marguerite B.....254 Greendale Avenue

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Rhinow, Arthur B.....1104 Dayton Street
Rice, Raymond Fridman.....453 Riddle Road
Roberts, Edward Dodson.....1620 Dudley Street
Rockwell, Charlotte Henrietta.....Glendale, O.
Roff, Ida Mitchell.....747 W. Sixth Street
Rogers, Ethel Elene.....2334 Ashland Avenue
Rose, Stewart.....566 Purcell Avenue
Rosin, Amy.....2610 May Street
Ross, Gladys Dodd.....Ft. Thomas, Ky.
Ross, Martha H.....2810 Preston Street
Rothstein, Leonard Julius.....420 W. Fifth Street
Rover, Paul.....125 W. McMillan Street
Rowell, Mary E.....428 Carlisle Avenue
Rubens, Charles C.....1438 McMillan Street
Rucker, Wilson Harper.....Constance, Ky.
Rush, Olive.....Flat 2, Southport Flats, Chase Avenue
Russell, Francis M.....3022 Concordia Avenue
Sanders, Ethel.....2911 Montana Avenue
Sapiro, Aaron Leland.....1318 Westminster Avenue
Sauer, Louis W.....2101 Central Avenue
Sawtelle, Elmer S.....Delhi, O.
Schaaf, Eugenie M.....1925 Hewitt Avenue
Schell, Emma A.....2513 May Street
Schell, Mabel Hoffmann.....132 W. Ninth Street
Schott, William Charles.....2343 McMicken Avenue
Schottenfels, Helen.....658 June Street
Schroer Anthony L.....1535 Hapsburg Avenue
Schroetter, Charles Albert..1 E. Seventeenth St., Covington, Ky.
Schwaab, Walter.....1622 Dexter Avenue
Schwab, Essie..... 848 Hutchins Avenue
Schwartz, Albert.....1561 Linn Street
Schwarz, Amy J.....126 E. University Avenue
Schwarz, Jacob D .....334 Laurel Street
Schwarz, Lena B.....752 McMillan Street
Sears, Isabel.....Mound Avenue, Norwood, O.
Sears, Ruby.....Mound Avenue, Norwood, O.
Segal, Alfred.....715 W. Seventh Street

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Shafer, Walter Zerah.....Cross Lane and S. Elm Street
Shaffer, Lucy Kennedy.....Clinton Springs Avenue
Shaw, Joseph Hughes.....2974 Colerain Avenue
Shaw, May Elizabeth.....6 Mitchell Avenue
Shepard, May.....Cypress and S. Elm Streets
Shine, Helen Virginia.....1129 Madison Avenue, Covington, Ky.
Siehl, Benjamin H.....2220 Ohio Avenue
Siehl, Charles F.....2220 Ohio Avenue
Singer, Jacob.....Buffalo, N. Y., and 705 Ninth Street
Silber, Mendel.....525 Clinton Street
Small, Nettie.....4231 Fergus Street
Small, Raymond B.....Hartwell, O.
Smith, Josephine Clare.....852 Poplar Street
Smith, Minnie E.....2719 Elmwood Avenue
Sohn, Norma A.....3203 Jefferson Avenue
Sommerfield, Mildred.....845 Windham Avenue
Sorin, Constance.....Observatory Place
Spellmire, Mabel Ginevra.....2482 Observatory Avenue
Spiegel, Arthur Major.....2302 Kemper Lane
Spielman, W. Carl.....505 Shillito Street
Spurlock, Eva Elizabeth.....495 Riddle Road
Stallman, Cora.....1554 Lingo Street
Steeg, Jacob.....New Orleans, La., and 1532 Chapel Street
Stein, Helen Louise.....2823 Park Avenue
Stewart, Anna Bird.....728 E. Ridgeway Avenue
Stewart, Fannie Resor.....2346 Auburn Avenue
Strautmann, Anna E.....4312 Liston Avenue
Strautmann, Louise Josephine.....4312 Liston Avenue
Strebel, Clara.....2276 Spring Grove Avenue
Strong, Katie Boteler.....912 Findlay Street
Stuart, Anna Marie.....Fern Bank, O.
Stugard, Frederick.....2307 Wheeler Street
Stuhlmann, Otto, Jr.....1232 Jackson Street
Sugarman, Susie.....435 Ridgeway Avenue
Sutfield, Florence Overton.....3502 Clifton Avenue
Sutor, Julia Louise.....Reading, O.
Tatman, W. C.....Fruit Hill, O.

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Tepe, Edward A.....Station I, Avondale
Thomas, Charles Neil.....McMillan Street
Thornton, Annabel.....Wyoming, O.
Topp, Bertha.....2904 Woodburn Avenue
Tresch, Hulda.....711 Laurel Street
Trisler, Charles Wesley.....Hartwell, O.
Tucker, Mary Ann.....1644 Clayton Street
Tuttle, Margaretta Perkins.....950 Nassau Street
Twachtman, Eric R.....1554 Baymiller Street
Uematsu, Minosuke....Kyoto, Japan, and 106 W. Seventh Street
Van Hart, Clara Mare.....3421 Telford Avenue
Van Matre, Everett.....3920 Glenway Avenue
Veazey, N. Ford.....783 Summitt Avenue
Vos, Calvin.....Sidney Avenue and Rachel Street
Wagner, Stella M.....Southeast corner Ninth and Linn Streets
Wakai, Tanegiro.....Nigata, Japan
Weber, John Bruce.....2156 Grand Avenue
Wehmer, Paul Frederick.....550 Milton Street
Weihl, Elsa A.....2712 Hackberry Street
Weinstein, Aaron Lewis.....636 Shillito Street
Weller, Arthur Douglas.....3465 Evans Place
Wells, Effie May.....330 Laurel Street
West, Vivien.....424 Sixth Avenue, Dayton, Ky.
Wetterstroem, Walter W.....2867 Colerain Avenue
Whitacre, H. J.....Lancaster Building
White, Inez M.....409 Grand Avenue
Whitehead, Elizabeth.....726 York Street, Newport, Ky.
Wieman, Harry Lewis.....1110 Gest Street
Wilson, Alice Elizabeth.....544 Mt. Hope Road
Wilson, Glorvina.....562 Lexington Avenue, Newport, Ky.
Wilson Helen G.....544 Mt. Hope Road
Wilson, Minnie Louise.....544 Mt. Hope Road
Winkler, Elmore.....617 Shillito Street
Winterbottom, Fannie.....3975 Main Avenue, Norwood, O.
Wise, Isaac Meyer.....615 Mound Street
Wise, Regina Rozalia.....615 Mound Street
Wolf, Horace.....819 Glenwood Avenue

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Wolf, Jane.....722 Wayne Street
Wolf, Mrs. Jean.....693 Glenwood Avenue
Woodall, Charles Brent.....86 E. Fifth Street, Covington, Ky.
Woodward, Alice Noble.....Glendale, O.
Worthington, Elizabeth Carpenter.....2230 Frances Lane
Worthington, Helen.....2230 Frances Lane
Worthington, Julia.....2230 Frances Lane
Wright, J. Marvin.....Kennedy, O.
Wurtz, Louise.....3026 Western Avenue
Wyler, Effie.....1449 E. McMillan Street
Yerger, Eva.....2030 Burnet Avenue
Young, Helen Minshall.....2418 Ashland Avenue
Zanoni, Elizabeth Corinne.....728 W. Eighth Street
Zech, Emma.....1844 Fairfax Avenue

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SUMMARY.

Graduates	32
Undergraduates	339
Special Students	30
Students in Courses for Teachers	37
" " Summer School	19
Total	457
Deduct for names counted twice	7
Net Total	450

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ALUMNAL ASSOCIATION OF THE ACADEMIC DEPARTMENT.

STARBUCK SMITH, '96.....President

BESSIE FRANCES JOHNSON, '96..... .....Vice-President

ALBRECHT F. LEUE, '98.....Secretary and Treasurer

CLEMENT A. BARBOUR, '92. F. ROMER PETERS, 96

Members of Executive Committee

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COLLEGE OF ENGINEERING.

SENIORS.

Candidates for the degree of

Ahlbrandt, Gustav.....B. S. in Ch. E.
Colville, Frank Prague.....B. S. in M. E.
Crane, Holden I.....B. S. in C. E.
Heintz, Walter James.....B. S. in C. E.
Mehlhope, John Fred.....B. S. in Ch. E.
Reemelin, Oscar Benjamin.....B. S. in C. E.
Reitman, George Edward.....B. S. in C. E.
Roos, Henry William.....B. S. in C. E. & E. E.
Worcester, Thomas Alfred.....B. S. in E. E.

JUNIORS.

Baurichter, Joseph Hermann.....B. S. in E. E.
Bebb, John Edward.....B. S. in C. E.
Collier, Lester duPont.....B. S. in C. E.
Cramer, John Emanuel.....B. S. in M. E.
Ermert, Rudolph Arnold.....B. S. in E. E.
Esterman, Harry Bernard.....B. S. in Ch. E.
Fosdick, William Powell.....B. S. in C. E.
Hans, Clarence Louis.....B. S. in C. E.
Holdredge, Howard Glenn.....B. S. in M. E.
Jacobs, Manuel J.....
Niemes, Frederick Daniel.....B. S. in C. E.
Passel, Howard F.....B. S. in C. E.
Schmitt, Charles William.....B. S. in C. E.
Schroetter, Charles William.....B. S. in M. E.

SOPHOMORES.

Bacharach, Eric W.....B. S. in M. E.
Bryan, William J.....B. S. in Ch. E.
Buchanan, Frank A.....B. S. in E. E.
Clark, William Taylor.....B. S. in C. E.
Dischner, Freeman E.....B. S. in C. E.
Faber, Herbert.....B. S. in C. E.

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SOPHOMORES.

Candidates for the degree of

Feldmann, Marcus.....B. S. in E. E.
Groom, William S.....B. S. in M. E.
James, Hamilton D.....B. S. in M. E.
Quirk, William A.....B. S. in C. E.
Rasch, Walter C.....B. S. in E. E.
Roberg, Louis Augustus.....B. S. in E. E.
Story, George.....B. S. in C. E.
Trisler, John L.....B. S. in C. E.
Wendt, Wylie B.....B. S. in C. E.
Williams, Curtis S.....B. S. in M. E.

FRESHMEN.

Bahlmann, Erwin F.....B. S. in M. E.
Balzhiser, Julius H.....B. S. in C. E.
Baxter, W. Howard.....B. S. in C. E.
Bell, James E.....B. S. in C. E.
Biedinger, H. E.....B. S. in E. E.
Bodemer, Oscar.....B. S. in E. E.
Booth, Robert M.....B. S. in E. E.
Brand, Louis.....B. S. in C. E.
Bruehl, W.....B. S. in E. E.
Bushelman, John F.....B. S. in C. E.
Crowley, Charles J.....B. S. in C. E.
Doeller, G. Albert.....B. S. in M. E.
Drexelius, H. Corey.....B. S. in M. E.
Edeler, August.....B. S. in C. E.
Eichler, Walter.....B. S. in C. E.
Flach, Frederick John.....B. S. in E. E.
Forshee, Frank.....B. S. in E. E.
Forbes, Edward W.....B. S. in Ch. E.
Fosdick, Roger L.....B. S. in C. E.
Gallagher, James.....B. S. in C. E.
Hatfield, Chester P.....B. S. in M. E.
Hood, Louis.....B. S. in C. E.
Isaacson, Deming W.....B. S. in C. E.
Kincheloe, Richard Perkins.....B. S. in E. E.

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King, Harry F.....B. S. in C. E.
Kite, Thomas Moore.....B. S. in C. E.
Kreimer, Alfred Tennyson.....B. S. in Ch. E.
Lippelman, Walter G.....B. S. in Ch. E.
Loewe, Gustave Fred.....B. S. in C. E.
McGill H.....B. S. in E. E.
Meyer, George W.....B. S. in M. E.
Morris, Walter W.....B. S. in C. E.
Reinke, John G.....B. S. in C. E.
Ritchie, John J.....B. S. in M. E.
Roberts, Clarence J.....B. S. in E. E.
Schick, Herman F.....B. S. in C. E.
Shine, Bartholomew Jennings.....B. S. in E. E.
Sloan, Samuel S.....B. S. in C. E.
Stegner, Harry.....B. S. in C. E.
Thompson, George R.....B. S. in C. E.
Vogeler, Karl.....B. S. in C. E.
Ward, Richard Earl.....B. S. in M. E.
Woodward J. D.....B. S. in M. E.

SPECIAL STUDENTS.

Bell, Clement Henry.....B. S. in E. E.
Bowler, Robert Bonner.....B. S. in C. E.
Hanly, Hunter Wardlow.....B. S. in M. E.
Hooven, George E.....B. S. in M. E.
Rodgers, Leigh James.....B. S. in M. E.
Van Matre, Harold.....

SPECIAL STUDENTS IN EVENING CLASSES.

William Druhman.	George Feus.	E. T. Ambach.
Anthony L. McHugh.	A. T. Brown.	C. H. Meintz.
Alban J. Norris.	Charles Cornelius.	H. P. Miller.

SUMMARY

Seniors	9
Juniors	14
Sophomores	16
Freshmen	43
Special Students	15
Total	97

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THE MEDICAL DEPARTMENT.

(THE MEDICAL COLLEGE OF OHIO)

SENIORS.

NAME	STATE	PRECEPTOR
Ackley, Earl	Ohio	A. V. Phelps, M. D.
Arthur, Lewis T	Ohio	
Barker, O. D	Ohio	A. Howard Smith, M. D.
Bartel, Arthur W	Ohio	O. C. Griep, M. D.
Bausman, Charles	Ohio	Drs. S. N. & A. J. Bausman
Berghausen, Oscar	Ohio	
Behrman, Oscar	Kentucky	
DeCourcy, Carroll Wm	Ohio	W. E. DeCourcy, M. D.
Earley, A. H	Ohio	C. C. MeLean, M. D.
Ellis, Hubbert	Oklahoma	
Fry, Melvin	Ohio	Drs. Spitler & Marquart.
Gholson, Norman Glasgow	Mississippi	
Haberly, Samuel S	Ohio	Owen Hildebrandt, M. D.
Hancock, Charles	Virginia	
Heffner, Ed. F	Ohio	D. H. Richardson, M. D.
Heisel, Charles	Ohio	O. Sidel, M. D.
Hughey, W. R	Ohio	Dr. Hughey.
Johnston, W. S	Ohio	
Marshall, Louis	Kentucky	O. H. Adamson, M. D.
Martindill, W. C	Ohio	C. O. Dunlap, M. D.
Mills, Harry	Kentucky	
Nelson, James V	Indiana	B. C. Stevens, M. D.
O'Connor, John M	Ohio	
Osmond, A. E	Ohio	
Ransohoff, Jos. L	Ohio	
Reemelin, E. B	Ohio	
Roessly, G. R	Ohio	
Rogers, J. E	Ohio	
Sikes, George	Ohio	H.I.Fisher,M.D.-B.H.Blair,M.D.
Smith, Charles W	Montana	A. V. Phelps, M. D.

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NAME	STATE	PRECEPTOR
Sofge, Frank J	Ohio	
Solomon, Ed. P	Alabama	
Speidel, T. A	Ohio	
Stephens, David W	Kentucky	R. Lee Bird, M. D.
Stuntz, Harry	Ohio	
Swing, Frank U	Ohio	
Swing, Fred. C	Ohio	
Tetrick, Paul	Ohio	
Tillotson, J. R	Ohio	
Traul, Lee	Ohio	
Waddell, Norman L	Ohio	
Wayble, H. C	Ohio	
Weakley, B. M	Ohio	
Weaver, D. Elbert	Ohio	
Witherspoon, W. Horace	Kentucky	
Wyler, Jesse S	Ohio	

SPECIAL.

Wm L. Shollenbarger, M. D.....Ohio
O. P. M. Ford, M. D.....Indiana

JUNIORS.

Bertling, Francis E	Ohio	
Boiarsky, J. W	Ohio	Wm. Hillkowitz, M. D.
Bray, George R	Ohio	
Brown, Herbert A	Ohio	
Burdsall, Harry L	Ohio	
Bush, Walter H	Ohio	
Chamberlin, Charles J	Ohio	C. G. Rutledge, M. D.
Conard, Robert	Ohio	G. R. Conard, M. D.
Conner, A. R	Kentucky	
Espey, Paul D	Indiana	
Fayen, Emmett	Ohio	
Foertmeyer, A. W	Ohio	
Fox, Edward A	Ohio	
Furste, Wesley L	Ohio	

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NAME	STATE	PRECEPTOR
Galley, G. M.	Ohio	Jas. Hollopeter, M. D.
Heap, Jas E.	Ohio	
Hendricks, C. M.	Ohio	
Kramer, Francis	Ohio	
Longworth, Thomas	Ohio	H. H. Hoppe, M. D.
Neal, Will	Ohio	
Pansing, Holley	Ohio	E. W. Spitler, M. D.
Sharp, Stephen C.	Kentucky	
Spitzlberger, L.	Kentucky	Drs. Gould & Barker.
Stacey, Lester W.	Ohio	
Strietmann, W. H.	Ohio	
Swartz, Ernest	Ohio	W. F. Moss, M. D.
Tedesche, Leon G.	Ohio	H. K. Dunham, M. D.
Thomas, Robert W.	Ohio	
Varden, George K.	Kentucky	
Wertheimer, C. L.	Ohio	
Yoseph, Yoel	Turkey	
Zimmerman, Henry A.	Ohio	W. J. Thomasson, M. D.

SOPHOMORES.

Batte, John T.	Kentucky	
Caldwell, J. Hadley	Kentucky	J. A. Caldwell, M. D.
Davis, Addison D.	Ohio	
Detrick, Frank E.	Ohio	
Doerr, Charles E.	Ohio	
Firth, Robert H.	Ohio	A. H. Earley, M. D.
Fisk, D. A.	Wisconsin	
Friesleben, William	Illinois	
Hetrick, R. H.	Ohio	
Hulsman, Louis F.	Indiana	
Ireton, Frank A.	Ohio	
Leeds, H. Nelson	Ohio	
Lusher, H. V.	Ohio	
McClure, W. C.	Kentucky	
McGuire, Lee W.	Ohio	
McKay, Roy H.	W. Va.	
Meek, J. Risk	Kentucky	
Micklethwait, Oscar R.	Ohio	Wm. Micklethwait, M. D.

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NAME	STATE	PRECEPTOR
Nelson, Harry G	Indiana	
North, E. A	Indiana	O. P. M. Ford, M. D.
Palmer, Dudley W	Ohio	C. D. Palmer, M. D.
Pribble, E. R	Illinois	J. Akester, M. D.
Ricker, Elbridge G	Ohio	Jos. Ricker, M. D.
Robinson, Wilbur	Indiana	C. Neuforth, M. D.
Rockhill, Charles S	Ohio	
Runyan, Raymond	Ohio	
Schultz, L. Huber	Ohio	
Slutes, Raymond	Ohio	
Smith, J. Richard	Florida	B. Decatur Smith, M.D.
Townsend, C. E	Ohio	
Tuechter, Jacob L	Ohio	
Wallenstein, Millard	Ohio	Wm. Hillkowitz, M. D.
Weber, K. L	Ohio	
Werner, August	Ohio	

FRESHMEN.

Agenbroad, Guy E	Ohio	
Bergen, F. L	Illinois	E. O. Laughlin, M. D.
Blissard, J. Morton	Ohio	
Brumm, Fred H	Ohio	L. D. Brumm, M. D.
Coate, Charles R	Ohio	A. J. Bausman, M. D.
Cole, Albert R	Ohio	
DeCourcy, J. Fred	Ohio	W. E. DeCourcy, M. D.
Dickson, Thomas R	Ohio	
Durand, Herman	Ohio	
Enz, Edwin W	Ohio	
Fisk, Owen C	Kentucky	
Gansz, Harry G	Ohio	
Hossler, W. H	Ohio	
Hottendorf, Louis T	Ohio	
Kennedy, Joseph T	Ohio	
Kleckner, Ralph E	Ohio	J. B. Kleckner, M. D.
List, Walter E	Kentucky	
McCaffrey, Charles	Ohio	

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NAME	STATE	PRECEPTOR
McCord, Harry E.	Ohio	
Moore, John	Kentucky	
Neal, Aleshire	Ohio	Edwin Ricketts, M. D.
Panzer, George U.	Ohio	A. C. Bauer, M. D.
Schroder, Charles H.	Ohio	
Simmonds, Earl	Ohio	
Stammel, Earl	Ohio	C. A. Stammel, M. D.
Stevenson, Robert	Ohio	
Thorndyke, John	Kentucky	
Wilson, Earl	Ohio	
Wolf, Sigmund	Ohio	

SUMMARY BY STATES.

Ohio	107
Kentucky	17
Indiana	7
Illinois	3
Virginia	1
West Virginia	1
Alabama	1
Oklahoma	1
Montana	1
Mississippi	1
Wisconsin	1
Florida	1
Turkey	1
Total	143

SUMMARY BY CLASSES.

Seniors	46
Juniors	32
Sophomores	34
Freshmen	29
Special	2
Total	143

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THE LAW DEPARTMENT.

FIRST-YEAR CLASS.

Alexander Edward Franklin.....Cincinnati.
Ashburn, Allen Wright.....Batavia.
Baker, Thorne.....Cincinnati.
Berwanger, Sidney Cecil.....Cincinnati.
Black, Robert Lounsbury.....Cincinnati.
Boehmer, Alvin L.....Ft. Jennings.
Brokaw, Harry Everett.....Brokaw.
Collier, G. Carl.....Cincinnati.
Hoffman, Herbert Henry.....Cincinnati.
Howard, Hubert Samuel.....Covington, Ky.
Johannigman, Henry Herman.....Cincinnati.
Keyl, Edwin B.....Cincinnati.
Kinney, Joseph Newcomb, Jr.....Cincinnati.
*Krippendorf, Otto .....Cincinnati.
Linch, Harry Leon.....Cincinnati.
Link, Aloysius C.....Springfield.
Miller, James Alva.....Trebeius.
Needham, Hubbard Smith.....Williamstown, Ky.
*Pflueger, Edward William.....Covington, Ky.
Pugh, George Eliot.....Cincinnati.
Roettinger, Stanley Clay.....Wyoming.
*Rucker, Wilson Harper.....Constance, Ky.
Schwaab, Walter Richard.....Cincinnati.
Thorp, Abner, Jr.....Cincinnati.
Tidd, Fred. Martin.....Canton.
Welch, George William.....Cincinnati.
Whiting, Earl Lee.....Petersburg, Ky.
Winkler, Elmore .....Cincinnati.

*Special.

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SECOND-YEAR CLASS.

Avery, Coleman ..... Cincinnati.
Bacharach, Lester S..... Cincinnati.
Bayless, Herman Armstrong.....
Beaty, Albert Lee..... Cincinnati.
Beckman, Vincent H..... Celina.
Biehle, George ..... Cincinnati.
Blacker, Joseph ..... Cincinnati.
Braunwart, Harry ..... Cincinnati.
Brokaw, George Leonard..... Brokaw.
*Dechant, Harry P..... Cincinnati.
Eggers, William August..... Cincinnati.
Fennel, Adolph D..... Cincinnati.
Gram, Harry G R..... Springfield.
Green, Martin Ruter..... Rising Sun, Ind.
Greenwald, Taylor Conklin..... Cincinnati.
Hermann, Jacob S..... Cincinnati.
Higgins, Ralph .....
Kerr, Horace Stanley..... Kerr.
Kronenberger, Harry L..... Cincinnati.
McCray, F. Alfred..... Clarksville.
McCurdy, Edward Turpin..... Newtown.
McGrath, George Andrew..... Marion.
Phillips, Joseph Jefferson..... Cincinnati.
Ross, Simon, Jr..... Cincinnati.
Roudebush, William Anderson..... Batavia.
Sayler, Philip A..... West Alexandria.
*Scudder, Joseph Paul..... Kyle.
Stewart, James Garfield..... Springfield.
Thompson, Robert Woodside..... Cincinnati.
Todd, Arthur J..... Springfield.
Weisman, J. F..... Oxford.

THIRD-YEAR CLASS.

Anderson, Frank C..... Morrow.
Andrews, John Davis..... Hamilton.
Black, Robert Adair..... Cincinnati.
Blackmore, Louis Bonte..... Cincinnati.

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Durr, Edward ..... Winton Place.
Gebhart, Mahlon Urias ..... Miamisburg.
Groesbeck, Glendinning Burnet ..... Cincinnati.
Gunlefinger, Marcus M ..... Warren.
Humble, Harry Wilbur ..... Norwood.
Hutchins, Edwin Leon ..... Cincinnati.
Moore, William B ..... Lisbon.
Newcomb, Ralph Otis ..... Cincinnati.
Probasco, William Ramsey ..... Glendale.
Simon, Harry Abram ..... Greenville.
Spilker, John Bernard ..... Cincinnati.
Tyler, Wilfred Marshall ..... Wyoming.
Walker, Robert Harris ..... Cincinnati.
*White, Dowd ..... Alexandria.

RECAPITULATION.

REGULAR STUDENTS.

First-year Class	25
Second-year Class	29
Third-year Class	17

SPECIAL STUDENTS.

First-year Class	3
Second-year Class	2
Third-year Class	1
Total	77

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OHIO COLLEGE OF DENTAL SURGERY.

SUMMARY OF STUDENTS.

(Seniors, 80; Juniors, 81, Freshmen, 43.)

From Ohio	109
" Kentucky	27
" Indiana	15
" West Virginia	13
" Pennsylvania	8
" Illinois	6
" Michigan	5
" Minnesota	1
" Canada	3
" Wisconsin	1
" Montana	1
" North Dakota	1
" Iowa	1
" Massachusetts	1
" Missouri	1
" New York	2
" Texas	5
" Tennessee	2
" Colorado	1
" Mexico	1
Total	204

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GENERAL SUMMARY OF STUDENTS.

The Academic Department, The Graduate Department, The Summer School	450
The College of Engineering	97
The Medical Department	143
The Law Department	77
Clinical and Pathological School of the Cincinnati Hospital.	232
The Ohio College of Dental Surgery	204
Total	1203
Deduct for names counted twice	130
Net Total	1073

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HOLDERS OF SCHOLARSHIPS, 1903—1904

The Cornelius George Comegys Scholarship was awarded to Frederick Stugard, (stipend, fifty dollars).

The Charles McMicken Honorary Scholarships were awarded to the following Seniors:

Harry Ettelson. Aaron Sapiro.
Harry Friedman. Effie Wells.
Louise Wurtz.

The Matthew Thoms Honorary Scholarships were awarded to the following students:

JUNIORS.

Harry Fetsch. Harry Wieman.
Meyer Lovitch.

SOPHOMORES.

Annette Braun. Adella Goldsmith.
Stella Wagner.

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HOLDERS OF FELLOWSHIPS, 1903—1904

The D. A. R. Fellowship in American History was awarded to Alice Morrill.

The Teaching Fellowship in Biology, to Mabel Spellmire, B. A.

The Teaching Fellowship in Modern Languages, to Elsie Metz, B. A.

The Teaching Fellowship in English, to Arthur James Kinsella, B. A.

The Teaching Fellowship in Physics, to Harry L. Wieman and Earl Farnau.

AWARD OF PRIZES.
1903.

The first Jones Prize for the best English oration was awarded to William August Eggers.

The second Jones Prize for the second best English oration was awarded to Anna Bird Stewart.

The Phi Beta Kappa Prize for the best English essay was awarded to Josephine Clare Smith.

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ACADEMIC DEPARTMENT.

DEGREES CONFERRED IN 1902-1903.

The Degree of Bachelor of Arts was conferred in September, 1902 on:

Drukker, Grace Myhra.....2522 N. Ingleside Place
Miller, Noble.....Hackberry Street

In December, 1902 on:

Kleinschmidt, Ethel Dana.....3453 Evans Place
Loeb, Elsa.....829 Rockdale Avenue
Metz, Elsie Bauretta.....2648 Melrose Avenue
Pauli, William Otto.....112 University Avenue
Schottenfels, Stella.....658 June Street

In March, 1903 on:

Carpenter, Mabel Sara.....Highland Avenue
Lowenstein, Arthur.....Wheeling, W. Va.
Morrill, Alice.....2176 Ohio Avenue
Mosby, Gertrude.....1010 Chapel Street
Plaut, Helen.....Waldamar Flat, Main Avenue
Whiting, Herbert R.....218 Oak Street

In June, 1903 on:

Andrew, Agnes.....Linwood
Ball, Eustace Hale....."The Stephen," McMillan Street
Bayless, Herman Armstrong..... 138 West Seventh Street
Brachman, Erna Antoinette.....2632 Eden Avenue
Cahan, Morris.....New York, and 614 Richmond Street
DeWitt, William Hildt.....Auburndale Place
Eggers, William August.....1528 Jones Street
Elliott, George Koch..... .651 Barr Street

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Ewald, Alice Edna.....3304 Warsaw Avenue
Gage, Harriet Anna.....140 West McMillan Street
Galway, Lilian.....48 Hollister Street
Goldstein, Sidney Emanuel..Chicago, Ill., and 2615 Stanton Avenue
Griffith, Florence.....118 E. Auburn Avenue
Hegner, Lidia Elizabeth.....3159 Harvey Avenue
Hirst, Marie Helen....."San Rafael," W. Fourth Street
Hoban, May Belle.....420 Richmond Street
Kiely, Ellen Mary.....420 Broadway
Kinsella, Arthur James.....Hopple Street
Kuppin, Louis.....619 W. Sixth Street
Lewis, William Howard.....409 E. Fifth Street
McConaha, Grace Chisholm.....1056 Wesley Avenue
Maury, Madelaine LaRue.....870 Glenwood Avenue
Moore, Charles Napoleon.....1123 E. Third Street
Nippert, Eleanore.....1807 Fairfax Avenue
Nippert, Ida.....2707 Euclid Avenue
O'Donnell, James Bernard.....212 Parson Street
Raisin, Max.....New York City, and 1504 Westminster Avenue
Ratterman, Helena.....1532 Elm Street
Reinke, Caroline E.....551 Findlay Street
Riesner, Ida Cunigunde.....406 Warner Street
Schell, Mabel Hoffman.....132 West Ninth Street
Schrader, Else.....26 Conklin Street
Seaman, May Kingsley.....Harper Avenue, Norwood, O.
Smith, Josephine Clare.....852 Poplar Street
Spellmire, Mabel Ginevra.....2482 Observatory Avenue
Stewart, Anna Bird.....728 East Ridgeway Avenue
Stiegler, William Gustav.....Paxton Avenue, Hyde Park
Tucker, Virgil Hoggins.....1644 Clayton Street
Tuechter, Jacob.....24 Conklin Street
Vorhees, Edith.....Blue Ash, O.
Walker, Stuart A.....63 E. Front Street, Covington, Ky.
Weiss, Alexander.....Haddon Hall
Winterbottom, Mabel.....Williams Avenue, Norwood, O.
Wise, Jonah Bondi.....615 Mound Street
Wright, Grace.....4028 Clifton Avenue

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GRADUATE DEPARTMENT.

DEGREES CONFERRED IN 1903.

In March:

Meader, Lee Douglas, M. A. University of Cincinnati, ...2651 Gilbert Avenue

In June:

Bishop, John Remsen, B. A. Harvard; Ph. D. University of Cincinnati.....McCormick Place

Jupp, Sarah Elizabeth, B.A. University of Cincinnati, 1902; M.A. University of Cincinnati.....344 Ludlow Avenue

Schottenfels, Stella, B. A. University of Cincinnati, 1902; M. A. University of Cincinnati.....658 June Street

Weber, Ada, B. A. University of Cincinnati, 1900; M. A. University of Cincinnati.....217 Elm Street

ENGINEERING DEPARTMENT.

The following degrees were conferred in June, 1903:

Gast, Albert E., B. S. in C. E.....524 Considine Avenue

Kopp, Charles Foster, B. S. in E. E.....Boston, Mass.

McCallister, Edgar William, B. S. in M. E.....Pittsburg, Pa.

Passel, Albert, B. S. in M. E.....North Fairmount

Roos, Henry William, B. S. in M. E.....131 Parker Street

Shipley, Carl Sylvanus, B. S. in M. E. .....Norwood, Ohio

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THE MEDICAL DEPARTMENT.

[MEDICAL COLLEGE OF OHIO.]

The Degree of Doctor of Medicine was conferred on May 2, 1903, on:

Baker, Grear Hill
Bates, Merrick Linley
Behrman, Michal
Blunden, Joseph Emil
Boreing, Vincent P.
Boyd, Marie Clare
Cofield, Robert B.
Cook, Walter C.
Creekbaum, John Henry
Elder, Elmer A., B. A.
Ferris, Charles
Ferris, Chase L.
Fritsch, Louis E.
Gilbert, A. Irwin
Gillham, Paul William
Goosmann, Charles
Greene, Letch
Guinn, Edward
Hauser, Charles Edwin
Hempsted, Samuel H.
Hoffman, Joseph John
Langdale, Charles H., Ph.D.
Lange, Sidney, B. A.
Lawrence, Wade W.
Linss, Louis P.
McCartney, Jesse T.
McHenry, Oscar Edwin
McKim, Gordon F., B. A.
McKinniss, Clyde R.
McMechan, Francis J., B. A.
Marsh, Hanson H.
Miller, George William
Milliette, Delphis R.
Morris, Earl H., Ph. B.
Mundhenk, Albert O.
Murray, Charles E., B. A.
Nelson, Leo I., Ph. B.
Ogier, William J.
Pfeiffer, Arthur
Pinney, Oliver H.
Preston, Henry B., Ph. G.
Price, Carroll P.
Shelton, Richard B.
Shilling, Harry E.
Smedley, Clement D.
Smullen, Tessie S.
Stephens, William E.
Strohbach, George
Treon, James F.
Vos, Arthur, B. A.
Youtsey, Claude
Yongblut, A. A., Ph. B.
Zerfass, Frank P., A. B.
Zwick, Karl G., Ph. B.

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THE LAW DEPARTMENT.

[THE CINCINNATI LAW SCHOOL.]

The Degree of Bachelor of Laws was conferred in May, 1903, on:

Bentley, M. H.
Dell, H. L.
Hunt, H. T.
James, W. H., Jr.
Jung, T. C.
Lange, O. W.
Mente, W. B.
Mentel, L. H.
Myers, J. B.
Nielan, J. F., Jr.
Newman, J. E.
Richmond, M. J., Jr.
Ryan, D. J., Jr.
Stanbery, H.
Thompson, C. B.
Ware, O. S.

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Directory of Boards and of Officers of Administration and Instruction.

A—Academic Department. L—Law Department. M—Medical Department. D—Dental Department. CP—Clinical and Pathological Department. B—Board of Directors. BV—Board of Visitors. CE—College of Engineering. TC—Teachers College.

ALLEN, G. H.....A.
3003 Scioto Street.

ALLEN, G. M.....CP.
2116 Auburn Avenue.

ALLEN, S. E.....CP.
22 West Seventh Street.

ANDERSON, ROBERT.....BV.
Bullock Electric Co.

ARNOLD, FRANK R.....BV.
325 Broadway.

AYERS, HOWARD.....President of University.
299 Southern Avenue, Mt. Auburn.

AYRES, S. C.....M. and CP.
4 West Seventh Street.

AYRES, W. McL.....M.
4 West Seventh Street.

BARNHORN, C. J.....BV.
1347 Broadway.

BARTHOLOMEW, GEORGE K.....BV.
Ludlow Avenue.

BASSLER, S. S.....A.
920 West Eighth Street.

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BAUR, WILLIAM.....A.
Highland Avenue and Oak Street.

BECKER, J. F.....D.
Marietta, Ohio.

BEEBE, BROOKS F.....M.
408 Broadway.

BELL, C. H.....CE.
3019 Jefferson Avenue.

BENEDICT, ALFRED B.....B.
31 Wiggins Block.

BENEDICT, H. M.....A.
3231 Bishop Street.

BENEDICT, W. R.....A.
Brookline Avenue, Clifton.

BETTMANN, H. W.....CP.
43 Groton Building.

BIXBY, WILLIAM H.....BV.
2836 Reading Road.

BONIFIELD, CHARLES L.....M.
N. E. corner Fourth and John Streets.

BOUSCAREN, G.....BV.
1800 Josephine Street.

BRIDGMAN, MINNIE C.....A.
3410 Clifton Avenue.

BROWN, E. M.....A.
The Auburn Hotel.

BROWN, F. SANFORD.....B.
26 Carew Building.

BULLOCK, JAMES W.....BV.
2831 Vernon Place.

BURGER, FRANK.....D.
College Building.

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*BURNAM, J. M.....A.
The Sterling Hotel.

BUSCHMANN HENRY.....M.
1209 Elm Street.

CALDWELL, C. E.....CP. and BV.
1110 Cross Lane, Walnut Hills.

CAMERON, OTIS L.....M. and D.
18 East Ninth Street.

CAROTHERS, ROBERT.....M.
413 Broadway.

CARSON, ARCH I.....CP.
46 East McMillan Street.

CARTMEL, WILLIAM B.....A.
The Auburn Hotel.

CASSIDY, J. S.....D.
Covington, Ky.

CHATFIELD, MRS. A. H.....BV.
1939 Madison Road.

CHEZ, A. W.....A.
412 Carmalt Street.

CHEZ, MRS. A. W.....A.
412 Carmalt Street.

CLANCEY, D. W.....D.
Seventh and John Streets.

CLEVELAND, HARLAN.....L. and BV.
56 Carew Building.

CONNER, PHINEAS S.....M. and CP.
215 West Ninth Street.

COOK, LOUIS.....CP.
3532 Warsaw Avenue.

---

*Absent on leave for the year 1903-1904.

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COPPOCK, FRANK M.....BV.
1350 Locust Street.

CORNELL, D. D.....D.
Knoxville, Iowa.

CORBETT, J. S.....M.
846 Barr Street.

CRANE, WM. H.....M. and CP.
20 West Ninth Street.

CURTIS HENRY M.....B.
103 East Auburn Avenue.

CUSTER, L. E.....D.
Dayton, Ohio.

DANDRIDGE, N. P.....CP.
422 Broadway.

LAURENCE, DANIEL.....Clerk of Board.
City Hall.

DE CAMP, W. A.....B. and BV.
2617 Eden Avenue.

DOANE, WILLIAM H.....BV.
2223 Auburn Avenue.

DRURY, A. G.....M.
625 West Eighth Street.

DURY, CHARLES.....BV.
524 Ridgeway.

EDDY, H. T.....CE.
Erkenbrecker Avenue.

EICHBERG, JOSEPH.....CP.
22 West Ninth Street.

EVANS, C. S.....M. and CP.
5 Garfield Place.

EVANS, THOMAS.....A. and E.
440 Ludlow Avenue.

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EVENS, P. B.....A.
203 West Fifth Street, Covington, Ky.

FACKLER, GEO. A.....CP.
112 Garfield Place.

FARNAU, FARL.....A.
Covington, Ky.

FEE, FRANK E.....CP.
3727 Eastern Avenue.

FICK, HENRY H.....BV.
2619 Hemlock Street.

FLEISCHMANN, JULIUS.....B.
City Hall.

FORCHHEIMER, FREDERICK.....M.
S. E. cor. Fourth and Sycamore.

FORCHHEIMER, WALTER.....M.
The Ortiz Building.

FORD, A. STARR.....M.
504 West Seventh Street.

FRANCIS, R. W. C.....M.
534 West Seventh Street.

FREDIN, BLANCHE M. (Mme. Auguste Fredin).BV.
Madison Road.

FREIBERG, A. H.....M. and CP.
706 Walnut Street.

FRENCH, JAMES M.....M.
420 West Seventh Street.

FRIEDLANDER, ALFRED.....CP.
22 West Seventh Street.

FRY, H. S.....A.
417 Tusculum Avenue.

GARVIN, LELIA A.....A.
1200 Cypress Street, Walnut Hills.

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GHOLSON, EDWIN.....BV.
Court House.

GOOD, P. W.....M.
2145 Vine Street.

GORDON, J. D.....D.
1036 Mound Street.

GOSLING, T. WARRINGTON.....BV
Pullan Avenue.

GREENMAN, E. G.....CE.
3003 Scioto Street.

GREIWE, JOHN E.....M. and CP.
32 Garfield Place.

GREVE, CHARLES T.....BV.
Maxwell Avenue.

GUNLEZINGER, M. M.....L.
124 West Ninth Street.

GUNTHORP, PAULINE.....A.
451 Ludlow Avenue, Clifton.

GUYER, M. F.....A.
228 Loraine Avenue, Clifton.

*HADZSITS, G. D.....A.
3231 Bishop Street.

HANCOCK, HARRIS.....A.
The Auburn Hotel.

HARFF, B. G.....BV.
Chapel Street and Woodburn Avenue.

HARMON, JUDSON.....L.
St. Paul Building.

HARRY, JOSEPH EDWARD.....A.
The Kensington Hotel, Mt. Auburn.

---

* In charge of the Latin Department during the absence of Prof. Burnam.

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HARRY, PHILIP W.....A.
56 Rochelle Street.

HAYS, T. W.....M.
2204 Vine Street.

HEPBURN, CHAS. M.....L.
15 Carlisle Building.

HERRON, WM. C.....L.
United Bank Building.

HICKENLOOPER, ANDREW.....BV.
838 Dayton Street.

HICKS, FREDERICK C.....A.
130 Wellington Place, Mt. Auburn.

HILL, ALEXANDER.....BV.
3128 Woodburn Avenue.

HILLER, CARL.....M. and CP.
706 Walnut Street.

HOADLY, GEORGE.....BV.
St. Paul Building.

HODGE, HARRIET E.....A.
3405 Clifton Avenue.

HODGES, NATHANIEL D. C.....BV.
Public Library.

HOFFMAN, FREDERICK L.....BV.
325 Broadway.

HOLDEN, REUBEN A.....BV.
46 Main Street.

HOLLINGSHEAD, FANNIE M.....BV.
2715 Reading Road.

HOLLISTER, MRS. HOWARD C.....BV
Madison Road.

HOLMES, C. R.....CP.
8 East Eighth Street.

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HOLMES, MRS. C. R.....BV.
3598 Washington Avenue, Avondale.

HOLT, OLIVER P.....CP.
134 West Ninth Street.

HOPPE, H. H.....M. and CP.
32 Garfield Place.

HOW, W. S.....D.
Philadelphia, Pa.

HULICK, W. O.....D.
Union Trust Building.

HYNDMAN, JAS. G.....M.
22 West Ninth Street.

IGLAUER, S.....M.
22 West Seventh Street.

ISHAM, A. B.....CP.
849 Oak Avenue, Walnut Hills.

JAMES, DAVIS L.....BV.
2709 Reading Road.

JAMES, ELDON R.....L.
United Bank Building.

JAMES, FRANCIS B.....L.
United Bank Building.

JENNEY, HERBERT.....BV.
71 Atlas Bank Building.

JONES, FRANK J.....B.
Fosdick Building.

KEARBY, A. N.....D.
College Building.

KEELY, C. I.....D.
Hamilton, Ohio.

KEMPER, THEO.....BV.
1713 Clayton Street.

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KEMPTON, W. D.....CP.
42 Glenn Building.

KINKEAD, ELLIS G..... B.
625 West Eighth Street.

KINSELLA, ARTHUR J.....A.
Hopple Street, North Fairmount.

KITTREDGE, GEORGE W.....BV.
604 Neave Building.

KNIGHT, WILLIAM.....D.
111 Garfield Place.

KOEHLER, MAX.....M.
124 West Ninth Street.

KUHN, OSCAR W.....B.
510 Lincoln Inn Court.

LANGDON, FRANK W.....CP. and BV.
5 Garfield Place.

LANGENBECK, ANNA.....BV.
Flat 8, Ninth and Race Streets.

LAWLER, FLORENCE C.....A.
1380 Myrtle Avenue.

LIBERMA, M. F.....A.
219 Bodman Avenue.

LINDAHL, JOSHUA.....BV.
312 Broadway.

LIST, WM.....M.
McMicken Avenue.

LIVINGOOD, CHARLES J.....BV.
2718 Reading Road.

LOEWE, HENRY.....BV.
2808 Park Avenue.

LOWMAN, JESSE.....BV.
337 Forest Avenue.

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LYLE, BENJ. F.....CP.
2302 West Eighth Street.

McCLURE, C. R.....M.
10 West Seventh Street.

McFARLAN, FRANK G.....BV.
726 West Ninth Street.

McKEE, E. S.....M.
10 West Seventh Street.

McKENZIE, J. C.....CP.
City Hospital.

MALLON, GUY W.....BV.
32 Carlisle Building.

MALSBARY, GEO. E.....M.
14 East Seventh Street.

MANN, FLORENCE.....BV.
Cor. Park Avenue and Windsor Street.

MARX, C. W.....CE.
270 Hosea Avenue.

MATLACK, H. C.....D. and CP.
907 Neave Building.

MAXWELL, LAWRENCE, JR.....L.
703 Neave Building.

MEHAFFEY, E. A.....D.
Court and Central Avenue.

MELISH, JOHN HOWARD.....A.
318 East Fourth Street.

MERRILL, CHARLES G.....BV.
Fifth and Butler Streets.

METZ, ELSIE L.....A.
2648 Melrose Avenue.

MILLER, GEORGE MOREY.....A.
Ludlow Avenue.

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MILLER, JOHN.....M.
432 West Fourth Street.

MITCHELL, E. W.....CP.
124 Garfield Place.

MOLYNEAUX, GRANT.....D.
141 West Seventh Street.

MORE, LOUIS T.....A.
305 Pike Street.

MORRILL, HENRY A.....L.
416 Walnut Street.

MUEHLBERG, WM.....M.
5 Garfield Place.

MURPHY, J. W.....CP.
51 Groton Building.

MURRAY, HAROLD P.....A.
2274 Vine Street.

MURRAY, JOHN T.....A.
125 West McMillan Street.

MYERS, J. N.....D.
Georgetown, Ohio.

NEAVE, MISS JANE C.....BV.
385 Lafayette Avenue.

NICHOLSON, GEORGE B.....BV.
Odd Fellows' Temple.

NICKLES, SAMUEL.....M.
1406 John Street.

O'CONNELL, JOHN G.....B.
44 Wiggins Block.

OLIVER, J. C.....CP.
628 Elm Street.

PALMER, CHAUNCEY D.....M. and CP.
Main and Forest Avenues, Avondale.

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PARRY, EMMA L.....BV.
May Street.

PAUL, C. M.....M.
16 East Seventh Street.

PHILIPSON, DAVID.....BV.
852 Lincoln Avenue.

PIATT, E. de V.....L.
2148 St. James Avenue.

POLL, MAX.....A.
230 McCormick Place.

POOLE, ALLYN C.....M. and CP.
2906 Woodburn Avenue.

PORTER, J. G.....A.
Mt. Lookout.

PUGH, ROBERT C.....L.
58 Carew Building.

RACHFORD, B. K..... M. and CP.
323 Broadway.

RAMSEY, ALLAN.....M.
The Ortiz Building.

RANSOHOFF, JOSEPH.....M. and CP. and B.
706 Walnut Street.

RAVOGLI, A.....M. and CP.
5 Garfield Place.

REAMY, THAD. A.....M.
619 Oak Street.

REED, C. A. L.....M.
Groton Building.

REIGART, JOHN F.....A.
222 Albion Place.

RITCHEY, J. WARREN.....BV.
3101 Murdock Avenue.

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ROBINSON, H. C.....M.
1643 Freemen Avenue.

RODGERS, LEIGH.....CE.
2929 Vaughn Street.

ROGERS, W. P.....L.
2334 Ashland Avenue.

ROSE, A. G.....D.
2344 Auburn Avenue.

ROWE, CASPER.....BV.
789 North Crescent Avenue.

ROWE, JAS. W.....M. and CP.
20 West Ninth Street.

SATTLER, ROBERT.....CP.
Groton Building.

SAVAGE, W. E.....M.
215 West Ninth Street.

SAYLER, JOHN R.....L.
40 East Third Street.

SCHNEIDER, H. F.....CE.
The Roanoke.

SCHWAB, LOUIS.....CP.
1641 Blue Rock Street.

*SEELY, W. W.....M.
401 East Fourth Street.

SHIPLEY, S. C.....CE.
51 Liddell Place.

SLAUGHTER, J. W.....A.
The Roanoke.

SLOCUM, STEPHEN E.....A.
445 Ludlow Avenue.

SMITH, E. O.....M.
1223 Walnut Street.

* Deceased.

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SMITH, H. A.....D.
116 Garfield Place.

SMITH, H. T.....D.
116 Garfield Place.

SNELL, J. F.....A.
3231 Bishop Street.

SOUTHGATE, T. H.....M.
Newport, Ky.

SPEIDEL, C. G.....M.
167 East McMillan Street.

SPELLMIRE, MABEL G.....A.
Observatory Road.

SPRINGER, ALFRED.....BV.
316 East Second Street.

STANWOOD, JAMES A.....BV.
2927 Reading Road.

STARK, SIGMAR.....CP.
11½ East Eighth Street.

STEMLER, J. E.....CP.
City Hospital.

STEPHENSON, NATHANIEL W.....BV.
44 East McMillan Street.

STERN, DAVID.....D.
112 Garfield Place.

STEWART, DE LISLE.....A.
Mt. Lookout.

* TAFT, WM. H.....L.
Washington, D. C.

TAUBER, ELMORE B.....M.
5 Garfield Place.

TAYLOR, J. I.....D.
Cor. Seventh and Elm Streets.

* Absent on leave.

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TAYLOR, WM. H.....CP.
553 West Seventh Street.

TERRY, ARTHUR G.....A.
2823 Scioto Street.

THALHEIMER, MARY E.....BV.
936 Marion Avenue.

THAYER, GEORGE A.....BV.
304 Oak Street.

TRAEGER, JOHN H.....CE.
3231 Bishop Street.

TROST, SAMUEL W.....B.
12 West Canal Street.

VAIL, D. T.....CP.
Park Avenue.

WALKER, E. W.....CP.
30 Garfield Place

WALLER, SARAH BELL.....A.
3465 Evans Place.

WARDER, R. H.....BV.
410 West Eighth Street.

*WARRINGTON, JOHN W.....L.
United Bank Building.

WAY, T. I.....D.
530 West Eighth Street.

WEBB, D.....M.
413 Broadway

WHITACRE, HORACE J.....M. and CP.
22 West Seventh Street.

WHITACRE, M.....M.
2116 Auburn Avenue.

WHITCOMB, MERRICK.....A.
2344 Ohio Avenue.

*Absent on leave.

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WHITE, JOSEPH E.....BV.
2833 May Street.

WIEMAN, HARRY L..... A.
1031 Gest Street.

WILBY, CHARLES B.....BV.
21 Blymyer Building.

WILBY, JOSEPH.....BV.
604 Neave Building.

WILES, L. S.....L.
2149 Grand Street.

WINSLOW, JOHN F..... BV.
2808 Reading Road.

WITHROW, JOHN M.....CP.
22 West Seventh Street.

WOLFSTEIN, D. I.....M. and CP.
22 West Seventh Street.

WOOLMAN, RUTH.....A.
2135 Fulton Avenue.

WORTHINGTON, WILLIAM.....BV.
Frances Lane.

WRIGHT, C. M.....D.
434 West Seventh Street.

YOUNG, D. S.....CP.
418 West Seventh Street.

YOUNG, W. B.....M.
305 East Third Street.

ZENNER, PHILIP.....M.
14 Glenn Building.

ZINKE, E. GUSTAV.....M.
13 Garfield Place.

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SUMMARY OF OFFICERS OF ADMINISTRATION AND INSTRUCTION.

Officers of Instruction	164
Officers of Administration and Instruction	15
Officers of Administration	6
Emeritus Officer of Instruction	1
Total	186

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